## APPENDIX TO THE FIRST REPORT

OF THE

# IRISH MILK COMMISSION, 1911

# MINUTES OF EVIDENCE

(Taken in Bublin, Belfast and Newry, 29th November, 1911, to 1st March, 1912, inclusive).

WITH INDEX.

Presented to Parliament by Command of Bis Illaiesty.



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### Copy.

BY THE LORD LIEUTENANT-GENERAL AND GENERAL GOVERNOR OF IRELAND.

f 18 1

### ABERDEEN.

WE, John Campbell, Earl of Aberdeen, Lord Licutenant-General and General Governor of Ireland, hereby nominate and appoint :-

PATRICK J. O'NRILL. Esquire, J.P., Chairman of the County Council of the County of Dublin;

Sir John Lentaigne, F.R.C.S.L.; GEORGE A. MOORHEAD, ESQUIPE, F.R.C.S.L.:

ALEC WILSON, Esquire, of Belvoir Park, Belfast;

Dermod O'Brien, Esquire, President of the Royal Hibernian Academy; JOHN R. CAMPBELL, Esquire, B.Sc., Assistant Secretary in respect of Agriculture of the Department of Agriculture and Technical Instruction for

Ireland. ALBERT E. METTAM, Esquire, M.R.C.V.S., Principal in the Royal Veterinary College of Ireland:

Lady Everano, of Randlestown, Navan; and

Miss Margaret McNelll, Assistant Inspector of Reformatory and Industrial Schools, Ireland,

to be a Committee to inquire into the alleged scarcity in the supply of Milk in some parts of Ireland, and to report upon the causes of the deficiency, where it exists, its effects upon the public health, and the means whereby the deficiency can be remedied; and also to inquire into and report upon the dangers of contamination and infection in the present Milk supply, and the methods best adapted to guard against these dangers.

We further appoint the said Patrick J. O'Neill to be Chairman of the Committee.

Given at Dublin Castle the 8th day of November, 1911, by His Excellency's Command.

J. B. DOUGHERTY.

BY THE LORD LIEUTENANT-GENERAL AND GENERAL GOVERNOR OF IRELAND.

### ABERDEEN.

Whereas We, John Campbell, Earl of Aberdeen, Lord Lieutenant-General and General Governor of Ireland, did by Warrant bearing date the 8th day of November. 1911, appoint Patrick J. Q'Neill, Esquire, J.P., Chairman of the County Council of the County of Dublin, Sir John Lentaigne, F.R.C.S.I.; and the several gentlemen and ladies therein mentioned to inquire into and report as to certain questions affecting the supply of Milk in some parts of Ireland;

And Whereas one of the Members of the Committee so appointed, namely, Sir John Lentaigne, has tendered to Us his resignation of his appointment as one of the said Committee:

Now We do appoint Sir Stewart Woodhouse, M.D., to be one of the Committee for the purpose aforesaid in the room of the said Sir John Lentaigne, resigned, in addition to and together with the other members of the Committee whom We have already appointed.

> Given at Dublin Castle the 2nd day of January, 1912, by His Excellency's Command

J. B. DOUGHERTY.

Page.	Nume of Witness	Copacity in which Witness gave evidence
		A
274 34	Access, Dr. Schuer, M.A. Accessor, R. A.	Modfoal Superintenders Officer of Health, Lengue, Successary to the Disk Agricultural Organisation Society.
		E.
219	BANDE, Dr. H. W. BANDE, SANCER, M.B.C.V.S. BANDESOFF, Mass MILLEE RANKY, JOHN MICLOSE, M.R.C.V.S.	Matical Superioradius Officer of Health, Belfast Vetcussry Empactor, Newtownshis Raint Datest, Secretary to the Newsy Datest Numang Association Vetcurary Improves to the Belfast and Conference Rural Dates Connects
70 69 & 90	RARRY, Rev. ROMERT BANCER, St. RECEARD	
348 299 346 106	REAL WILLIAM A. J.P. REAL WILLIAM B.	Bepresenting iks W.N.H.A., Bellist, Chances of the Belline Rickel Datelyt Consells, and Hen. Sc. Clarks of No. 1 and 2 Nowey, Brazil District Cognicils, and Hen. Sc. to the Novey Appendixed Science of Particle Cognicils, and Rec. Sci. Responsition in W.N.H.A., Balbari, Deliration of Public Richards Office of Health, Excitores Union District.
96 60	BRATTAN, NOW RECEIVE, DV ROBERT BRETT, M. C.	Hadral Office of Health, Batherma Uclean Butnet. Chief Land Improvement Impector goder the Commissioners of Publi Works, Ireland.
		c
9 & 59	Common. Ser CHARLES, C.S., M.D.	. Medical Superintendent Officer of Health, Dublin
360 377 179 336	FRCSI CARROR, TROMAS CLARK, LARRO L CLONE, PARRICK CONSULLY, JANES CONTENS, RANCOL E., M B.S.I	Buiry Farmer, Rathfoliud, Co. Down.
383 316	COTETEST, WILLIAM J., J.P.	Offer to the Autism Renal Distrast Council. Inspecte of Leve Stock scale the Department of Agrantium, Dath Inspect of Leve Stock scale the Department of Agrantium, Dath Inspect of the Stock Stock of Leve Council, and representing to Theirston of the Model Road Datent Council, and representing to Reiterodous Basedon of the Model Road Union. Conductor and Roaden, and Mills Yeadon, Helbon.
288 139	CRESCURZ, W. E. CRECUS, J. J. CRECUS, WILLIAM	Milk Parvoyce, Dublin. Town Clerk, Nowey
140	Creases, Mrs. M. J.	Of True, Co Neath.
		Di.
199	Dans, J. Raises, Dr. Ec., T.C.D.	Chryl, of the Bultinglass No. 1 Burnl Dutrict Council.
90	DOSESTATIS. LARY	
		R.
592	ESSERSII, TIDOMAN	Whalmair Milk Dunnkoter, Belfint; and Hember of the Belt Corporation
		P
392 92 204	PALLS, THOMAS, J.P. PANCETT, PALLEBRICK P. PLOCE, JOHN	Clork to the Bathaman Urban Datast Council Dany Impector, North Dubbn Runal Datast.
		G. %
239 & 500	Greco, James, M B C V.S.	Vetermany Impestor, Holywood Urben District, and Mumber of
172	German, James Scott -	Vetermany Impestor, Holywood Urben Detrict, and Mumber of Selfast Corporation Department Secretary and Chief Agreement Instructor in Department of Agriculture, Include
		H.
303	HARRIS, JOHN G. HARRIS, JOHNSON, J.P.	Chief Assistant to the Youn Clerk, Belliot Puzzlers of the Dublin Cowheepers and Duzymen's Associat Dublin
300 324 284	HAYES, MINS HOUSEAN M HESSEY, R. W HOUSEN, JAMES	Sectary Sub-Officer, Ratherines Urban District, Aprilations, Josephspue, Co. Armegis, Clerk of the Newtownier's Regal District Council
2.04		
		Cky Veterinaries, Belfavi.

Page.	Name of Witness.	Ospecity in which Wetness gave evidence.
		к
319 345	Kney, Dr. 4, LP Knyony, E	Beproxisting the Newry Urban Butmet Council. Oattle Receipt, Co. Dubles and Khikee.
		I.
198 97 278 119	Lapras, Dr. Thomas, M.R.OS.I. Laprase, R. H., M.R.C.V.S. Lawrence, Alex, J.P. Lavrase, Max. Martin Laurence, Dr. Joon	Cashel, Co. Typernay. Veteninary Impretor, Rotthurines Ushan District. Representing the Antium Renal District Council. Killeshandra, Co. Cavan. Hypotana to Secord: Stopatal, and Cited Medical Offices to Goinge
744	Linkson, M. Stus	Browcy, Dablia.
		м
333	M'BHON, JUMP M'CONNELL, H. M.B.C.V.S.	Dairy Impector, Belfont Victoriousy Impector to the Armsgh County Council, and the Arm
220 225	M'Cosveza, H. J., J.P	Bairy Izropector, Bellont. Tetericary Improves to the Armogh County Countl, and the Arm Urbon and Romal Districts Charman of the Newry Urbon District Council Manager and Secretary, of the Willnerous Co Operative Agricult
134 134 13	M'Esor, Armus, J.P. M'Esor, Janis H. H'Wesor, Podesne E.J., H A. M.D. Den, F.R.C.P.!	Manager and Secretary of the Willicross Co Operative Agricult and Dany South, Ltd. O. Armigh Home Batter Males, Jerrettspan, Co Armagis Dury Inspector, South Dakter Horal Batter Professor of Philadogy, University College, Delbin.
25	HRCYS	Veterinary Inspector, Rathdown Union, and Lecturer on Veteria Hyperse in Dohlin Currentity, and under the Department of Ju- culture
208 160 243	HANGE THE COUNTY OF HANGE WE BORRERS OF HOSTERS OF HOSTERS OF HOSTERS OF HANGE OF HA	Bury Lapsetter, Lame Urban District.  Be W.N.H.A. Milk Dopol at Name.  Nettownship District in Newtownship Beral District representation and District Whitesole and Betail Distriction.
		N
312	NEALE, E. A.	Tenffe Manager of the Creat Southern and Western Barbury, Irola
		0.
24	O'Descente, Dr. John	Merked Supernstrukent Officer of Health, North Debles Recol Distr
354 285	O'HARC, PETER O'NELL, Dr. CRARLES	seed N O H , Content of the of Health, Neeth Debta Paral Date and N O H , Content Farmer, Haysberdge, Co. Bown. Herberl Superintensiest Officer of Health, Contenuagh Revail Distr
		P.
356 358 288	Property Communder H 31 Property E W Property Boston J	is the Dairy Invites, Warrespoor, Co. Bowe, Clark of the Leegas, Urban Rostnet Council, Schooler and Landowner, Bellist Datrict.
		R.
231 157 127 246	RESTRUIDS, HENRY L. RECEASED, His MARCARY ROSS, CRANGE	Food and Desga longector, and Scotlisty Office; Political, Virturary Lopestor, North and Scotl Dubbin Basel Doctacio, Segliney Scio-Office, North Dubbin Barel Dateset, Sift Verbox, Bellust, representing the Bellist and Datust Whole, and Bellis Bostyman's Association MR Persons and Purveys. Dubbin
110 113	Resc, Joseph, J.P. Rescata, Right Hea. T. W., M.P.	and Retail Desystem's Association Milk Producer and Purveyor, Doblin Vice President of the Depositions of Agriculture, Indused.
770		8
266	Stores, M. J.P.	Parish Priest of Sentifield, Co. Down.  Representing the Denymen of Sengor and District, Co. Down; Mor. of the Aprentical Correll.
353 1 256 257	SHOPL J L SOFFER, ROBERT STIMER, Professor W Sc. C	or the appearance courts. Agriculturitie. Popuripass, Co. Armugh Principal Ceck, Lecal Convenient Bond, Dubles. Of Cearths, Co. Astron. Perfenser of Pathology, Queen's University, Bullinto.
16		T.
254	Taurros, W. R., Tumpion, Jones A., FRCVS, J.P.	Charman of the Committee of the British Goal Somety Vetermany Emperies of the Largue Urben and Russi Districts,
36 207 113 & 295	TROUTERS, P. ofessor W. H., M.D TROUSES, Dr. ROSTAN, M.B. TRIMPLE, Dr. AVINERY, D.P.H., J.P.	Mees Buil Darret.  Mees Buil Darret.  Mess Buil Darret.  Messer of Frynskogy, Dabbi University.  Charman of the Probe Health Committee, Belleat  Nember of the Bullat Public Health Committee

LIST OF WITNESSES-confinent

Page.	Name of Witness.	Capacity in which Witness gure evidence.
397	Voe Symposes, Mass E	V.  Lody Superpleadest of the Crooky Down failuresty and Newry Roupets!
136 44 & 109 139 344 11 305 272	W GENGER, JOHN, M.A. WATERO, AND GUYS, M.E. GUYS, WEISS, DE BENGES, M.E. GUYS, WILLISS, T. P. WILLISS, T. P. WILLISS, A. POOLE WOOD, Dr. W. ANTIHODO, M.D., M.S. [JERGA J. D. H., (Lefolio)]. White W. C. W. W. C. W.	W.  W. State of the Control of the C
129	Yorus, Joss	Y Cowkreper and Milk Vendor, Inchiner, Co. Doblin.

# PLACES AND DATES OF MEETINGS OF THE COMMISSION FROM 18th NOVEMBER, 1911, TO 1st MARCH, 1912

Duhlin, 18th November, 1911.	Committee meeting
28th and 30th November, 1911.	Evalence taken.
, 1st Describer, 1981.	**
. 8th, 9th, 11th, and 19th December, 1911.	
, 5th, 6th, 8th, and 5th January, 1912.	
53th, 29th, 27th, and 29th January, 1917.	
Bellines, 19th, 14th, 15th, 16th, and Wilh February, 1912.	
Dublio, 28th February, 1912.	
Newsy, 29th February, 1912.	
Lat March, 1912.	

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Aremunx B. (page 360).—Belovin of Milk Traffic to Dublin on the systems of the

Creat Southern and Western Reilway,
Millard Great Western Reilway,
Great Northern Reilway,
Dublin and South-Eastern Railway,
for a number of years.

the a fritable to yes

APPENDIX C. (page 301).—Correspondence and Reports to the Department of Agriculture conseruing the reception of dirty wilk at Creamerica.

Arrevor D. (page 363),—Statement formitted by Mr. A. Roole Wilson, Instructor of Dairying to the Department of Aggireltore, Ireland, so the Mills production of Ireland, and the quantity standard by the Cremerica.

Armenez E. (page 365).—Concerning the thermal death-point of pushogenic bacteria.

APPENDER F. (page 365),-Rates of conveyence of Gosts on the Great Southern and Western Bailway.



# FIRST DAY .- SATURDAY, 1878 NOVEMBER, 1911.

The Commission met at No. 5, Upper Castle Yard, Dublin, to consider their source of proceedings.

# SECOND DAY.-WEDNESDAY, 29TH NOVEMBER, 1911.

The Constriction met at No. 5, Upper Castle Yord, Dublin.

Present.—P. J. O'Nelle, Esq. (Chairman); Lady Everard; Sir John Lenyaigne, P.R.Cal.; Alec. WILSON, Esq.; J. R. CAMPBELL, Esq., 886.; Professor A. E. METTAM, 88c., M.B.C.V.S.; DERMOD O'BRIEN, Esq.; GEORGE A. MOORHEAD, Esq., F.R.OS.1.; and MISS MARGARET MCNEHA S W. STRANGE, Esq., Secretary.

# Mr. J. L. Surm examined

1. The CHARGES - Mr. Smith, I understand you are in the service of the Local Government Board !-2. And in the discharge of your duties in that De-Yes, that is so. In fact, I was associated with this perticular work when the Order of 1906 was in the particular work when the three to see an in-frest stage of preparation.

5. Your Board bave, from time to time, issued Orders desling with the question?—Yes.

6. And a General Order, I understand, was provide the year 1008, conheaving most of the previous that were found operative and under in the Orders that had and, in addition to that, the provinces of the Model Rogalistics which previously to 1998 had been odep-Regulations which previously to 1908 had here oder-tive. It was mainly a consolidating Order.

2. Spatieng grocestly, have you found that local governog bothen throughout firstand to coperated governog bothen throughout firstand to your fecund—I should say they have to a very large exten-fly response has been way gratifying, having regard. to the great difficulties the subject was attended with. 6. I suppose the matter was not free from contro-I suppose you have found contemacions

Boards that were rather slow to put your Orders into operation 2.—There was a small proportion, and we had feasily to take a test case against one of the Beral Cur-cib, which work to the Court of Appeal. The pade acces of the Court was in fareous of the Local need of the Court was in favour of the Loss Government Board. That was the case of the Kilmel lock Conneil.

7. In the main, were the Orders issued by your Bouri

7. In the main, were the Orders must by your Boxel magnature or permissive—Movel, the 1980 Gets is impensive. It applies to all Urbon and Burnel Dislated Concells. Only two special duffies in that Order are improsed—the duty of Repairmon, and the duty of the appointment of officers in we empiricancial the classes relating to the applicament of officers in the General Code of 1000. That, in terms, as permissive. General Order of 1909. This, in terms, so permissive they may appoint an Emporior, but in special cases no laws insured Mandates Ordem to individual Concents on the appointment of Vereinney Inspection, and it was on that point the Kinsalback Connell case tuned, married, the legitive of the Mandates Order.

8. Do you know of your own insufedge whether or not your foorer, in the Institute of these Orders, above that it was a matter of doubt whether the two remain-

ing Sections of the Contagnous Discuss Acts of 1878 and 1886, under which the Darres Order was authorised and assed, really permitted the appointment of officers. We were doubtful about it in the drafting; but when we ony omers by a total numbersy for carrying out the milk regulations, and resource was then had to the general govern under Seetom II of the Pablic Health Act, which gives the Local Government Beard the outhority of breating what officers shall be appointed Appear terries where the transming sections of the Contagnos Diseases (Amissis) Arts of 2578 and 1886. Had the contention of the Roard India, the result would be that there was machinery for making regulations for the control of milk, but no lega-

unthorning for the appearatment of officers to carry out That surely would be an anomaly?—The Court of Appeal decided than there was power under section 12 of the Public Health Aut to appear afficers for the ad-ministration of the Daintes Order.

10. Under this Order of 1908, certain conditions are no. Cross this terms of low, server, as continuous arranged with regard to the keeping of come and the porvoying of mile. In the first instance, I see that is associated to the second of mile should be registered?—Yes, requirered with the found authority. 11. What exactly does that convey?-It enables the ments of suspectors.

12. There is, of course, a difference between registration and knows-t--Oh, certainly, an important dif-

foreco.

J. World you be good entrugh to expirit how this differences believes required to a feet of the forecome and theretee would affect exceleding the third way, that they are most en oldingates surface the bettern of the Other to enginer, evering that the proper himself. If there was affecting to the temperature of the other temperature could be imported benefit of the entrusted by the property of the control of the other temperature out the temperature of the control of the other temperature out the control of the other temperature out the control of the other temperature of the other temperature of the other temperature out the other temperature of the other temperature of the other temperature of the other temperature of the other temperature out the other temperature of the other temperature out the othe

culty of an offence make the Order thry could with.

game or an effence useer the treaty forty could with-draw the hecone, and the men would no longer be in a position to sell milk.

16. That was everily what I wanted to brine out. If you had power to make licenses, you would also have authority to make an imperium of the premises where from earrying on the trade of a cow-looper.

all that buppens is coppose be commits a breach of the regulations, he is subject to a penalty, had he likes to pay that pountry sudefinitely he can contrading.

15. But the registration at the moment is not given

No because there is an ex-

under specific conditions?—No, because there is an ex-press obligation on the con-knoper to reguler, and on the local authority also to register him.

16. Has it been repeated to your Board by any of the officers appointed with your secretion that breaches o this regulation have been pensisted in and not corrected by Lood Authorities—I need to the drittle irrepord under the regularities of the control of the state of the support of the suppo

To That is exactly what I want to assert I is at of cow-keeper, but it is the formulation of administrative section and a very necessary bundance. 18. I am not speaking disparagingly of the powers conferred by registeration, but what I wanted to know

own demestic use, over a consecute use.
19. Mr. Desseto O'Entry — What is meant by the term "weaker of milk" under that Order which makes provision for the negativation of "all persons carrying on the trade of con-keepers, darrymen, or purroyors of units?" What does that county

instance, furners colling milk to the openness are brought in?—They are brought in specially. The creamony suppliers are expressly included.

21. Lady Eventup — Can I have it that a form

I think it is a very important question?—It do

ses it continuity 23. I say if they did it purely as a matter of con-mission, and the labourer is not able to get milk venuesce, and the labourer is not able to get milk elsewhere?—I think that point our only be raised on a procession. I would not like to give a decisive sociation that a farmer under these circumstances did not carry on the trade. I think the particular circum-

34. The Commun. What is your experience with re-pard to local governing hedino-do they appreciate baving the Order made imperative or left permissive?

that when the responsibility rests with the Local Govern-next Board or a Central Authority, it is a matter of assistance to the Local Authority.

of assistance to the treat Authorny.

26. I can quite undersoond that because if the option is left with the Local Authorities, certain influences may operate on their minds which are purely local,

and if the question is "may" and not "must," in all pobability your Order may tensifu a food letter, whereas if it is impossible they can always their, thermodres behand the Local Government Bond, and any, "this solution the food inside in putting this into

26. Under this Order, I see power as taken for reguisting the lighting, ventilation, elemning, drainage and water supply of dairies and core-shedr in the comassumer to that ourstion, I should like to say that some

unsaritary conditions first, and when these had been remedied they should gradually so on to deal with the other subjects that received attention. view of the Local Government Board is that the progrees in regard to the cox-sheds must necessarily be greduil. We azznot hope to carry out a revolution in

27. If I may say so, that some to me to be quote a fore the Order was neared, that considerable progress has been made, and the Local Government Bond to d opinion that that progress is reasonable, having regard to the conditions. I would not, however, like to sur-

tions to a higher standard. 28. Prof. Mrrrew .- Does that specially apply to the -Well, I should say mat if you take he a mant-Councille that have not approvided officers, the approvidof such Councile are in the rural districts.

ment of officers on the whole in the other districts. 30. The CRAEPLAN.-Perhaps that is only natural Perhaps the necessity for it in urban districts is more rempire the farment of the grand distance is more important than in raral distincts. The urban districts in the main are sometimes, and the rank districts in the main are sometimes, and the rank districts are pro-

In the districts in which creameries are estab-33. In the ensures in wast creamers are estab-lished, and where large herds of cows are kept, have most of the Local Authorities in these districts put thus Order man farout. Tee, he for the greates majority. I thank the memorandum I braded in shows this. Out of the total of 500 sanitary distracts, 250 have appearant mg, because there is very little production of cells for mg, necessare there is very little production of cells for sale, and it is a mostler of some doubt to what excite really the trade of a cow leoper is carned on at all. It mean districts fills Critism, Oughterned, and Behmillet. There is very little production of milk for sale in dis-

32. I quite unicestand that most of the occuphere got some means of heing supplied with milk. In not that so?—I think so.

88. And in districts where the land is more newlecscope?—The Leesl Government Board have very little various distants locking right the alternationalists of the Local Authorities mode the Pacific Reside Authorities Committee on the Pacific Reside Authorities Committee or analysis in greenist of their other control desagrants that or markets in greenist of their other distants. This particular of the broom was then, whichever, in their openions, the endorcement and openions of the Dammer October Services of the Committee C

The recommendation of the control of

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meaning a big power time. Then the ophisms are promised using the second deserved based of the shadownization of the chain of the second deserved based of the shadownization of the chain of the second deserved based of the shadownization of the second deserved based of the second deserved by the second deserved deserved by the second deserved by the second deserved by the second deserved by the second deserved deserved by the second deserved d

low, and may associate for the failing off of the supplytree milt supply to the horse and things of any systhm of the supply to the horse and things of any systhm of the supplementary supplementary of the supplementary of the supplementary of the potential cost, and we would be glod if you could give as the durigion to shoot into generators in administrating? —It is the more than the supplementary of the supplementary of Systems.

42 Miss McNerzz.—Does at comes as for an Dundalk?
—Yes, '1 will send in a list of the districts.
48. The Camesax.—I regard the statement as one of exterior importance "—floughly speaking, his district is to north-order cerair. It exhibits from Dundalk to Port.

44. And raming on to Deery-No, it does not apply into Deery. No Offent continues. "The small right into Deery. No Offent continues." The united in the vision. It is suithing that there should be story consideration of the suith supply in mag district, and the compensately few number of orac control of the control of

40. They me probably very detailed?—I have summanused them here.

49. Then perhaps you would be so good as to read them to us!—With it the summary —

court, is property -		
Dudriet.	и. о. н.	
Newtownsels Borsl		Frances would not sell to lubquing class for fear of coming under the Art. Complaints for a considerable time.
Barrinistee	Boolinger	Never heard of may searcity due to Duines Order.

Maghirha

Magherafeli

Dowapstrok

Autron

Complaints for a considerable time.

New band of any searcity due to Daines Order.

Not inclined to behive that times is a searcits due to Daines Order.

Not inclined to behive that times is a searcits due to Daines Order.

News any searcity of milk.

\*\*searcity\*\*—in them pletty for all who can affect to bay.

News hand of any searcity arising from Batties Order, and furthy good

manufity—in kenn pletely for ill who one reflect to bay, Newsy hand of any morely artifating from Battires Grains, and fately good unapply for old classion.

The property of the classion of the control of the classion of the classical of the classica

Never heard of domestic enterty, small farmers occurd to supply Bandalatown and Tunnghuore Creaturies.

town and Tunnightnore Creatieries. Heard no complaints. Searcity could not be eitenbried to Duiries Order.

47. The CRUMMAN.—There seem to discount the state-ment made by the medical gentleman, because the Medical Officers would seem to have dealt with the question, not us to the general correity, but as to the operation of the Daines Order in reged to the same?—
Of course, that was presented. course, that was periocalarly the point on which was someon to obtain information. From Dr. WIS SONIOUS

65. There seems to be a consensus of opinion that the Dames Order has not in any may limited the the farmer truer me supply 5. That is so. 91. Mr. O'Burn. The first place on your list (Now-townerds Burn! District) states that the farmers would

not sell to their labourers for four of coming under the Act. That is not the voice, but whether the farmer

opinion.

50. It has not been tried?—Not that I are aware of.

51. The Caumium.—No prosecution has taken place to decide thus question?—None that came under my

55. You refer to a difficulty which arose in regard to Kilmallook Burel Distirct Council, in which your Board Kilmallock Borel District Council, in which your Board felt bound to obtain the opinion of the High Courts on the question of their right to compel the Coursel to appoint a Veterinary Impactor. Thus, I believe, is done onder the Public Health Act?—Yes, because there were no clear words to the Contagious Durants Act authoria. ing the appointment of officers,

55. Will you be good enough to tell the Commission what happened in that particular one?—We had very prototoged communications with the Krimalhole Burel. the replicers obtaining in that district were very unservations — The constitute of the consumer generally is must inherery as regards construction, violation, lighting, draining, cube space, and eleminous. The surroundings generally are of the most resembler. the hardenships generally are of the floor mannature description; the manure is steed in close proximity to the shock, and the drainage is allowed to flow over the surface of the ground surrounding the shock, where it frequently ledges and becomes stagman. Many of the cobble-paved, without manuer trenches, or any means solvined that the only way to bring matters to a head was to hause a Mandatory Order to compel the Council to appears a Veterinary Surgeon for the purpose of the to appoint a Veterinary purpose are set purpose of the carrying out and enforcement of the provisions of the Owler. That was done, and in due course the case went the Board's Order was ulfra were, but on on appeal to the Heard's Oracy was niften wrone, but on an appenal to the Court of Appeal, the Order was sentanced, and the Court finued a perceptory Writ of Mandarma against the Coural. From the legal point of view the question was one of very speak obscurity, and in the moles I have

54. Perhaps it would be advisable if you could our marise it in order that we may have it on the officeal note?—I don't think I our make it shorter than it is

55. Then read the Mexicoandum for ne?-It is as fol-Court of Appeal in December list on proceedings itsis-tuted by us against the Kinesileek Bural District Council, with a view to accuring compliance with an Council, write a vice to meaning companing, who are order made by us in pressures of Section 11 of the Public Health (Ireland) Act, 1878, equining the Barril District Council to support as a Sandary Officer a po-tion with the qualifications of a repositored Veteronire son with the qualifications of a registered Volumning Suspens for energing out the impetition and supervision of the milk supply. The main issue turned upon the quantum wholes the two remaining sections of the Con-tagions Deceases (Animala) Asta, 1878 and 1886, which constituted the sistatory subbority 2s regulators for

the coated of the milk trade, could be read in conjune-tion with the Public Health Code, or whether they formed a separate and independent code. Originally the statutory provisions so to the central of the mills supply were included in an Act of 1878, relating to the discusse of naturals under which, in Ireland, the Control Authority was the Privy Council, and the Local Authority was the Board of Goardigns of each Union. Analysis in 1886, the functions of these substrilles, so far as the regulation of the milk task was concerned, never transferred respectively to the Local Government Board and the Urbon and Burel Santary Authoritaes. By subsewill thus be seen that the many ediministrative changes, which had taken place once 1878 formed an element of encertainty as to the tree relation in which the promai granted a perceptory write of mandamus against the Kilmallook Borel District Council. This partial pro-nouncement, confirming as it did the line of policy the Durins, Cosmole and Millishops (Ireland) Orders of 1908, has been of assistance in removing the doubts

50. I would like to take you a little further in regard to the appearament of Veterinary Surgeons. Have the Government Board any authority to ceder, or tion of a brast that is certified to be suffering from tuberuslosis if discovered in a design\*—The only pro-vision of this kind is contained in Serlien 18 of the Tuberuslosis Prevention (Ireland) Act, 1998, under which the Saminry Authority may onder the distrus-

It has,

SS. Has any provision been made for the payment of
the row destroyed? on. Has any provinces rean mane for the payment of compensation to the owner of the cow destroyed?— Yes, up to a limit of £10, and in case of depute the vented the general application of the Orden bear it been veited at general systemated of the common were de-felt by the Local Authority that if animals were de-stroyed they would be refricting a monetary burdely on the owner?—No such once has come under my

notice.

63. The Chairman.—I was going to suggest, if is needs with the waves of the Commissioners generally, that I should put a few general questions to the volume with regard to the notes they send in, and that I would then safe the numbers of the Commissions to reference to points that have not been brought out.
Will that most with the general you?

Mr. O'BRIDN.—Covering.
The Charmany.—If there is any question you wish to
take the witness you could put it now. Lady Everard,
Lady Everant.—The cost question I wish to put was
what I did sak before about the formers outplying there

bloomers.

61. Sir Jone Leavance.—I wish to sak, as there in some doubt on the point, what is the definition of a leader under the orders? I presume that all persons who supply sells in bulk are included?-You.

62, Will those brading in good's milk have to rega-Will goat-keepen come under the name head-

ter? was generate person outse where the manh mean-ing?—That point her not some up. 63. He is a purveyer of rolls, so my role. Mr. O'Esser.—Is it not a fact that to berecious at all events has not been detected arrang goods? Prof. METERN.—Goate are susceptible to tuberculous.

Mr. F. L. SMITH .- Nov. 20th, 1911 Suppers is that we got the returns once a year, and

77. Do the Local Authorities in Bublic in charge of the Act take my stope to secure that the mile soming into Bublio, is all from registered degrees?-I think 78. They have the powers—I think so. I think is is quite possible for them to anominin that. I might

79. The only my that sould be done is to go to a dusymmen permises and see the mines of the persons supplying him with milk?—Tha. If you look at Article 31 you will see that "Every purroger of milk of all persons from whom at any time he obtains any supply of wills, seed shall person the senting sub-officer or any other officer of the Local Authority therete authorized by them to impact such register at 80. So that if a man in Dublin who is a milk distri-

buter obtains his supply from the country, the senitary authority have at in their power to go to that milk dastributer and obtain a hat of the sources of supply and dral with the matter?—Yes, 83. Prof. METTAR.—And go down to the country? Prof. Marras.—And go down to the country.— They could not go conside their cover district.
 They could get information at any rate?—Yes.
 And they could bring it under the notice of the pertocals. Lond Authority?—Yes.

86. Mr. Carrenza.—Who can give that information as to whether they can follow the matter up?—Sir Sc. Ledy Evenano.—Do not the Local Government Board insust on the milk from the country being only from registered dates ?—That comes bank to the gues-We cannot interiors with a man's

86. The Changean, -Beyond that you could not go? You could not prevent him from supplying milk Lady Eventum.—He must be registered to supply at? No, that comes back to the question of freening 87. Supposing a man sends up with to a Bublin from the country, and he is not registered?- He

88. And who colorers that penalty?-The Local An-Sir Jony Larrances -Is it necessary that there

I do not think the Local Government Board could undertake the details of local administration. 90. You would not leave it optional with the Local sabilities in the direction of computery powers, don't knew that I would should be not computed by You see ecosyndery power-wouldy are only useful up to a cerusto point. They may great help in getting rid of a specific ablentic or indicating a Constillate of one junction and the power of the power of the constitution of the power of the power of the form it is not all the power of the power of the power of Thomas it a now should be for the sub-sub-sub-sub-sub-sub-line.

one impares son one toward or country and assessment. There is a good deal of discribing which is absolutely necessary as regard to the administration of this Order, 91, Mr. O'Burge, I guiley that at the person time Mr. Campaga, .- They have,

The Cauronay.--I understand they have, but they are not unduly pressing them, because they find that they are coming in gradually?—We can issue a Mandistory Order in respect of an appointment, and I don't know whether, supposing a Recal District Council know whether, supposing a Borel District Council obstituately refrond to carry out the regulation duties, we might not be in a position to take that Council into count. That sade has not scisen, but it is possible that the Local Government Board under their general

52. Str Jean Libertsons.—In medical journals I have seen complicies that in Leaden there is neithing to prevent the sending in of infected ziffs. I want to introduce a milk can come into Duthin from the country.

think they life as a servery tor the private accommunity of the course,

54. Mt. Wilson, There are one or two small postes

14. would like to clear up. I went to understand
why this concess exalination is made in the was of persense carrying on the lands of con-closure or different

for the purpose only of difficus of dirt and fitth that are indicated by these Begulations she remaining into to seek her sume must be a commany?—Because represence has shown that creamers are applied of executing a potent influence for the description of infections therease, and that in a metter which has come universely notice com-

stantly.

65. I dan't see why both should not be forbidden?—
It is very doubtful whether butter, and the conditions manufactors, come under the scope of this fi. If you take the terms of the section the protection of milk, and not the products of the milk; the protection of milk, one use the manage to the milk as while, of course, in peacifies, one knows that milk as the ordinary or common source of infections disease, it is very doubtful—I would not like to deny the possi-

56. With segued to Article 16, I gather that you have power under that him (order of 30th July, 1909) Article 6, sub-section 5, to repost to the Scoretary of premigning an Orner muse the amount of Ammon Act at the lane, and we thought it well that a smeller expressed day, should be placed on the Volennery In-67. Have you any evidence so to hos many cases been dealt with under that providing! No, we 58. Can you suggest the reason why you allow a con-sidential number of the Impenting Officers not to be

Veterinary Surgoous? Is there any serious reason why they should not oil be Veterinary Surgoous?—The mann others of the dury manuary. In the districts where by Improbes are appended, there are compositively few district and the extent of the trade would not justify the imposition of a Vetermary Suppose. positive the imposition or a veterinity friegrou.

(9). The Congress.—I rather gather that under the
present conditions the Local deveroment Board as
fairly well authorized with the provision at has made for able divergence of practice between different districts

oct.

70. Yes one missised with your powers?—I don't think the powers in the main need by extended.

71. Mr. Caurenz.—How enersy Socializery Authorition did you say have appointed Inspecting Officers?—250 here been appointed out of 500. There are about 59 here been appointed out of 500. There are about 59 T2. My point is that there is a way large number could corregulared? I have no doubt that the number could

unregaterer — and a second of the second of 

possible that rulk comes from distrible into Debin when con-knoppers are not required [3-4] is consolv-sibly possible. The standard is being supercord from you be year. You meet your groun I may say that so provide the property of the property of the proper-ty of the property of the property of the property standard way to be a ground structure in that year, and I toget that when you agreed software, in that year, well there is no convention to the property of the propert and a nope that when we got the reports in mant March we will show us equivalent interests.

75. Of course there are held a million people keeping calling cartainly 460,0002—Yes. But a lot of those

70. But still, from that, there must be a very horse number of persons who are non-registered?—Yes; what Printed image digitised by the University of Southampton Library Digitisation Unit

without the Public Health Authorities being able unterfere?-In my experience cases do man, where darries are well looked after and laspested, and names are well nowled after and inspected, and property conducted, but at the same time by some misproperty executioned, not so the same time by some min-bersone, some accountry, the milk does get infected, 93. I mount the constant porning to of infected milk to a city Mkr Doblan from the outdoor for the Pool. METERA——To some actions in Great Entisin, in Manufacture, for instance, the Public Health Au-

in Manchester, for 1950wich, the Printer Recom Au-thorities aun go right into the country and can inspect the cown from which the milk supply for the city is mented. That is a private and local 5477—Under Sec-tion 18 of the Tubervallets Act there is a power com-

tion to such power as is exercised in Manchester heing given to estern fike Dohlin and Belfast?—No. You will notice that in page 8 of my memorandum it is stated.

"The Compute of overred Urkan Daviris have scaled have not hisherto thought it advantals to second to such have not hisherite thought it advantate so secole to such applications, as we preferred that the Barral District Cosmolic concerned maple be afforded an opportunity of aerospan; for this efficient discharge of their func-tions in relation to the mill supply, which in cost case we have specially pointed out to them. Sheeld 16, however, he downld that the local control of the cost of the double to respond to suppose or opticing Union Databet sumers or must in their responsers assumed. The forests of during so has been juroided by Sentere 19 of the Tubersulesin Prevention (fireland) Act, 1965.

35, Lady Fernantin—I also it that Article 21 of the Delives Grider is a dead latter at presents, become it sumed by followed ups—I can be followed up.

of he fenowed up?-at can be resowed up.

96. Prof. Manyam.-Is it the instinger of the officer them to exercise it.

97. In Dublin't—Yes; that applies to Dublin.

98. They can communicate with the local arthurities

registration.

100 Is there may way by which the people of Dahlin our knew if the milk is from a regatered dairy?—They

101. The Chappean,-Ai the moment I take at the reaction of the Local Government Beard is not right untly to outgoon the Order at the very beginningalthough a provider to it the Order making that im-perative of they so desire. In not that so, Mr. Smith? —The policy of the Board undoubtedly has been not to

100, Precisely. I was going to read from the draft of evidence you supplied as with an extense about the question on outside impection power. It reads as felapplied to us for authority to carry out the improtest of dany promose situate in outside rical districts, from which the mile supply of the orban districts is derived. we have not informed thought is advanced to some or reach applications, as we performed that the Burid Dis-trict Councils, conserved might be affected at opporbunity of arranging for the efficient discharge of their functions in relation to the milk sumply, which us each case we have sponsily pointed out to them. Should it however, he found that the rural authorities or their officers fail to make proper use of their powers, we shall be prepared to empower certain Urban Destrict Cornclis to microcae for the due protection of communes of milk in their respective districts. The power of doing so has been prevised by Section 19 of the Tuber-culous Provention (Brilland) Act, 1908."

Mr Charasta.—Either for disease or want of circultrens.—For maybing. Heretolize the practice with regard to that has been to add for specific naturator of default, and that his generally knowpt observe the createment of the apphasation. They do not like to the creation of the application. They do not like to go into details, and, of course, it is a strong measure

but the attitude of the Board has been that before these powers are given a really strong case should be made out. In other words, at present the Board wishes to week through the local authorities. 103. Then Dathin most rely for the cleaniness of the milt supply on the local authorities?-- From where the

204. For comple, you might have a street authority yn one place and a lax authority in another?....They can

But they have no authority to go down to the that section.

106. Has there been anything done to co-astinate
the ideas of Inspectors under this Act? You have a

suppose there are between four and five hun-107. I suppose there are between four and five hundred. Has there been anything to co-ordinate their ideas of right or wrong ?—No. 108. Every officer is left to set up his own standard? He sets apporting to his own discretion

11. It is injust a quessed by others than Vetermary Surgeon. — 12. That may be possessed by others than Vetermary Surgeon.—Tes.

112. There is a very large district in the West of Instant that is being beginning in the new boddings. I observed in my journeys through the new boddings. I also chaseve that they are patting up very sufficient out-offices. Now, I understand that this Digree Order out-officer. Now, I understand that thus Durren Order prescribes that no new brilling can be compiled by a

114. Do you think that is being done?-Well, I have 115. Yen ove see the importence of M. ation coincided with a period of agramma tegrinoration.

And in a secon this Order set up a new standard and
new ideals for adoption whose brillings and con-aboth

116. Do you know whether the Estates Commis-sioners and the Concessed Districts Board in laying gard to the fact that these people will by and have be 197, Mr. O'Banco,-Are these buildings being put p by the Balates Commissioners or Board of Workst

Mr. Carregus - So long as a men has not a milk up he can jut up any building he lites, and when stop he can jou say consider as also, and a man-ber bother and a second consideration of the con-siderand as the companion of the buildings are so designed that they could never score whim the regulations?—Certainly; and I am sure the Local Operations these words be very glad on posting any representation of a specific instance to follow it up.
18. You mention the case of Newtownsels, where
seems faunces had given up supplying mile to their
labourers, or was there a suggestion of that hird?—

110. Some people consider that they are left outthat the farmer who supplies milk to his labourer is

120. Gusht he to be left out?-Not if he does it conturnily and avatematically 121. It is just as right that he ought to supply elem milk to the labourer so to the person as the town?— The suggestion that came note my most as a remedy of the hiring agreement the farener was not ownying on the trade of purveyor.

122. My point is that he is producing milk for human consemption?—But he would not be corrying on the rundo-there would be no rais.

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133. Would you allow him to supply tobs rolar milk?—I do not want him to do that, but if it is patitive out to the patitive of the become of a patiential remove are not positing milks become of a patiential remove are not positing milks become of the patient patient of the patient patient patients and the patients of the pa

8.65. And this, filter all, is the object of the whole things?—That is the shoot. 130. And therefore that you agree with me that 130. And therefore that you agree with me that everymous who is treeping owns, the milk of which is used for human ensemption, ought to be regulated and he permissis magnetar?—The answer 31, that is and the premissis magnetar?—The answer 31, that is the property of the property of the property of the Local Anthrectic makes, but I think below and the Local Anthrectic makes the property of the property of locking after the people energies.

Local Authorities have got quait cough on half in locking after the people express that in the following the the people expression and the following the views perkeper without extending our operations to every person who loops a cow. 127. There is no legical coupon why he should be left out!—No. 128. Lody Evensus.—Le Professor Compilell's contention that our cover should be registered?

of the state of th

about Institute—A new or Interestivas come scentered 120. What measures are not be derived by which these similar could be revocate in the drawed by which the similar could be revocate in the property of —No, and it could not be close without further legisbine. I recan be coulding provers would set do Senticu is of the Tuberculesis Pervention Art amplit Authority "pulse", Institute of saving the Statistical Authority "only and the could be and the land credible the words shout the tuberculous of it and credible the words shout the tuberculous of the saving are statistically and it companies on the saving the words shout the tuberculous of the saving when you was the country of the Statistical to words shout the tuberculous of the saving the words and it compaliesy or the Statistical to words shout the tuberculous of the saving the words and it compaliesy or the Statistical to words and it compaliesy or the Statistical the words are saving to the saving the

culcons.

181. Prof. Murrau,—What are the qualifications of the Lay Impertue?—Many of them are title-available officers.

181. They have no proteosicoul qualifications?—No. 183. Here they may proteosi knowledge of called—Seems of them have, others have no specule imper-

Some of them have, others have no special innovledge.

184. There is no protection them for the consumers of mile—Three is a protection in this way—the imquelified inspectors have the right to call in the nevview of Veternary Special.

qualified suspectors have the right to call in the servities of Velezinary Surgeons when they think it nocessary,

the De thay tike advantage of this?—Undoubtedly they do.

136. Sir Joint LEVILLOUR,—In these my objection to thin being made computary—to have qualified by demany. Impactons everywhere?—No, except as require expense.

137. Sic. O'BRILLY—There is a point I want to know; are increased as the following the followi

838. If they take to salling fresh rask do they come in?—If they sell mult inhitrally and systematically they are findle to be registered as purvous. 189. At present they are not?—No, they are treased as creamceless pure and simple.

140. And they do not sell the skim milk 9-No. I think not.

141. Returning the skim milk to the farmers who supply the whole milk is not looked upon on solving its—Mark brings a sugardon to noy mind that it there was the supply of the law, it might be very downship to transport of the law, it might be very downship to transport of the law.

 163. The expanded sulk is taken to bolk, and it is regomittle to know what coupling has soid in the mRk-31 is very hard to know. The whole of the contributions goes into its one kig ming vid or secondang of that load, and then the approach will be approached all over the dwarter, and from the dimensional or the contribution of the conlain settled and one of the contribution of the law settled and one of the contribution of the law settled and the contribution of the conlain settled and the contribution of the conlain settled and the contribution of the conlain settled and the contains and the cont

164. It does not come in under your pusticular province as to the pasticurisation of the nullt2—It does not content extends in a certain celeint.

146. As to whether it would be possible without posting too heavy o fax on consumers to posterous the expented mult; at proceed must of the contents of about 1, or it is marginity of those —have pasticuris—it should say the marginity of those—have pasticuris—

pointing soo bowy a fax on creameness to posterome the operation milk; as proced many of the constances of the constance of the constance of the constance. This is no. Mr. O'Bunx...-This is no. Mr. O'Bunx...-I don't thenk they posterome superior disk, at manufact of filters posteroire on the superior constance. The cream is the coty thing that is posteroire to. The cream is the coty thing that is posteroire of the constance of the constance

convent should be participated, and the last of the control of the

and a deep cool-depen shill provide that every curmen and the control of the control of the control of the studence on goingmen to the red control of the last thus con-differed to the deep can be given the amount about the control of the control of the control of the studence of the control of the control of the control Arthurs 2, 4, 5, and 6, apply to more. Do these Arthurs 2, 4, 5, and 6, apply to more, the control and the control of the country to complex. The property of the control of the country to complex to the control of the country to complex and for the control of the country to complex and for the country to control of the country to control of the country to complex where.

tuning shall be troubed immediate. The scending practically shall be troubed immediate. The scending shall be compeled every inserved to pull down has in this bill. The 14th, Does it not soon a little lead on the through the scending shall be soon to the credible inconsist, which to shall be shown to be credible inconsist of space with the man bring in the credible inconsist of space with the man bring in the credible inconsist, and the smaller, the scholar day, of the part of the remarker, the scholar day, the new part of the remarker, the scholar day, the new part of the resulting the credible in the scholar part of the same parts of credible in the scholar part of the same parts of the scholar parts of the scholar to the scholar parts of the scholar parts of the 15th. The cred is the few parts open railled, and the own are transported and the they have been railled, and the

too fouce day and might, bot in the eventry those the control of t

with one special belongs on the principal section of the principal special special

Mr J. L. SMITH. -- Nov. 2004, 1931.

188 Mr. Courant, Not necessarily. Three is an opinion that Local Authorities should not be uncessorable, but there is no reason vity the Local Authority could not come down on the farmer. He has to essays, where any the local Vestimina Sergean.

wasted to stamp on a men, he could?

The Witness.—I don't think in practice you will feel our backlets.

Task Mr. O'Branz.—The oblive point is more or less cleared up, that of the former supplying with milk his own libraries, or other labourers that he might employ, being hable to regularities o'F-Xes, and to inmorthm.

specified. By Lord Authority data on 3 accessed;
1503. But the met up by to be regardered.
Proposed to the met up by to be regardered.
Proposed to the met up to the met u

thinks, and the like we conserred, it was regular practice in the South.

187. I have favore any cose that instead of group potton ground, which was the custom, and very regular milk, it was not let them buy the milk or publishes from me or seyance she they flind than let item have this regular to grow spatishes any ground, which was regelected?—They suggested in made was a fund was a weak of the property of the suggested in the suggested in milks was a fund was a fund

principle with representative the suggestion I misso with a personal one, and I don't by strong on the 15th. The Cramwara—Yes suggested it as a means of dealing with the quastion of quantity. The certain cases, 120. Mr. O'Bains.—The point areas from the New townside case, where people relaxed to sell milk the cause they forced they recall by brought it under the cases they forced they would be brought in under the

The Measures—The says repost the other as good steel—I sayed the clark as a resolute test. So not steel—I sayed the clark as a resolute test. The same of the clark as the same of the same o

That is should a far so we have goes in laying down their motion T-dalours is—

"He shall report to the Samurar Antimothy in writing, anothly on more flowards of 10 moreous writing, anothly on more flowards of 10 moreous which may be required to be adopted to moreourne which may be required to be adopted to encourage the adoptions of the public units stopply in the properties of the violetomy on the public and to stopply and properts of the violetomy amount of the public of the Samura Anthony Anthony Company and the Samura Anthony Company and the Samura Anthony Company and the Samura Anthony Company and Company

through, the middle departmented after a consider home, and the control of the co

100. The CRIMMAN.—That is in emergenous of the milk couply?—Yes. De, O'Brion sends me a lister turn, the Medical Union of control of the could not be allowed from the couple of the could not be allowed for money when includes two present in bourses of the laboring them. DHR was admined as a charsty in more cases, but for feer of couring smiles the Act formers would not say.

the Act horners within no sec-167. Thus particular difficulty seems to he invoted to a sensi seen "--Yes. 168. Mes McNana.--Would the Local Government

100. Mrs. MCNELL.—World the Lood Guerreinezth Bered suretion, say, fee covarie, Duttin obtaining some powers to but out absorber broaden obtaining some powers to but out absorber broaden with the temperature of the Deley. Perfosor Miritim has told us that Nanchester has francial its own laws for that. World the Leed (Jovenneuer Basel asset for that for Bublin—Max, making, but there is no power will the Look Gwerenman Basel asset for the Hard Gwerenman Basel on the Sanstary will the Look Gwerenman Basel or the Sanstary

original quantum or inclusions, as the Local Government Board or the Saintary Authority.

160. In Regional is there may such thing as theme ing?—Not so far as my own harmoridge goes.

170. 14. O'flance.—These large Coeperations in England have outside inspecting powers. They can go down to the country and hand up the distribution of the country and hand up the distribution.

The Characas.—Under what Act have they got that power?

The Characas.—Under a local Act powerded by the Proceeding.

Many Maryon.—Under a local Act powerded by the Vended in the Markonta.—One knows that a quantity of malk weaked in the city of Dublin contest in a durty condition. Is there any possibility of Dublin getting power to powered this local of malk below varied.

different in several bits, bear of mill being versicle— They can be guissent the version in the origin. The many control of the property of the property of the coursed in Bellista before who there can one. There was a determine in the aughbourhood, and by per several property than by consent into Bellista, and Bellista bear of the property of the p

can that sould be properly given.

129. Myss McNian,—is there in this country ary
regulation as is contain of the American Stakes by the
story until formed by an inspectation was a series of the
regulation of the control of the country of the
stakes of the country of the country of the
stakes of the country of the country of the
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properly of the country of the
monoparties of the
mo

174. Con the Impector guarantee (our another joint of steet milk is not rold in the meantime.2—The milk is selected. 175. My O'Beurs.—Have you power to inspect furtories where the confessed milk is made?—No, use as

to rise whose the conference milk is made?—No, see as 170. The conference —It, see that her, I think or, 170. The conference —It is that her, I think or, the conference is the conference of the conference from the conference of the conference of the conference to conference of the conference o

buttermills.

177. Why not all its products?—If you like.

178. Mr. Sauth, as representing an administrative department, most be consecue of the huntriens of the arthriving given to them, and I think it is of the original importance that we should try to effect her virtual importance that we should try to effect her street of the service of the

Mr. CONTRELL—I do not critic undustantial abortical in houseas. What has been been the sense of the houseast by a houseast in this sense. A genumb to come the houseast of conclusions of the houseast of the hou

chiam a permit before he on see.

179. That does not crist new?—No.

180. The CHIMMAN—That is the essential difference between registration and literary.—The pressures could

Mr. J. L. SMITE,-Nov. 29th, 1911.

is toopested beforehard by the Local Authorities, and the control of the control of the control of the term is a position to early on the hollowing the con-lated the control of the control of the con-lated the control of the control of the con-lated the control of the primises are suitable to the houses they are group to understated—too. 100, 30. Controls—the control of the control of the 100 MeV. See the control of the control of the con-trol of the control of the control of the control of the term is the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-ories of the control of the control of the control of the con-ories of the control of the control of the control of the con-ories of the control of the control of the con-ories of the control of the control of the con-ories of the control of the control of the con-ories of the control of the con-ories of the control of the con-ories of the con-of

the present system?—Yes. The Changeas,—I think it is absolutely access Ser John LENTAGORE.—Would it be possible for us

Manchester and other English cities? Prof. Mirrace.—It would be very valuable. Could we summen the Medical Officer of Moschester, Dr. Niven, to give evidence before no? The Chanteux.—I will sak our Secretary to acce-

tain for us if Dr. Neven would be willing to give us details of the system under which they have the power of going into the country and inspecting the short and duries and determining whether the milk supply is such as absorble to supply is such as absorble to supply in such as absorble to such to the only. Mr. O'Hams.—Mr. Watson (chief Veterinary Inear his evidence before we communicate with Dr.

The CHARGAN,-It is arranged that Mr. Watson will is to the corrematances under which these powers were conferred on the Local Authorities. Prof. Marray,—Mr. Wetem's crisience would only

The Chargesay.-Was that subsequent to Manches-

Prof. Mreres, ... I think it was, but I am not quite

The CHARLES,-Manchester was the pioneer, so to Prof. Marrays.-I think so.

Mr. Cancretta.-London is taking with from Tap-The CRAMMAN.—Does any member of the Contras-ence wish to sak Mr. Scoth any other question. You would have no operation, Mr. Scoth, to come here as a later period if the members through it desirable to a later perior if the moments stronger is weather occurring you?—No. It is the wish of the Local Government Board that some forther evidence should be tendered by them. The subject I was alonged to dual with wes the operation of the Daimes Order. The CRAIRMAN.—The Committee will be delighted to hear any other evidence from the Local Govern-

## Sir Change Campion, c.a., M.D., F.L.C.S.L., examined.

184. The Charlesas.—Six Charles, you are Medical Officer of Hould for the City of Dublin?—Yes; Medical Superintendent Officer of Health. 185. And I think you have compled that position

r is communication uniter—1 mayo.

185a, And unturally you have had a verted experience 1855. And untrally you have had a varied coperators with ragard to the infection courveyed by milk and other motivatives—I have made a special stody and construction of milk. I was fee a great many years between on Agricultural Chammistry and Geology in the agricultural feet, now the Agricultural Geology, Glassertis, for about 25 years, not I made experiments there as milk with hims been phillipsed. 190. Coming to your more recent duties as the Medical Authority in Deblin, have you the power to ascertain whether or not the milk supply sent into the other has been produced under pure suff hyperine con-ditions. Not in regred to the milk from the opinity. initials. Not as region to the milk supply ap-187. A confidential position of the milk supply ap-consumed in the rity has, I take it, been sent in front the country.—I not, it is courting from places this we have no knowledge of, nor of the hygienic conditions under which the milk was preduced.

under which the mits was produced.

188, De you blook that is a very mantiefratory stage of thangs to proved from the yields basish point of vow?—I do; very mantiefratory. I have held some experience myself of seeting in the country where the rock was produced that was mineagurantly says to Dublin, self. I must say that most of the places I have

seen were in a very unhygicale condition 189. In such a condition so you would think would consistent a danger to the guidir health of the com-munity participant of the unit produced there?—I am

190. Has your attention ever been called to samples that the milk from the country was not, on the average, so clean as the milk from the city. I have seen some very dirty specimens of milk from the country. I'll. The approvision, I take it, in the city is more strict than that which preveils in the country 5-Yes

produced in the city dintes, which are order supervi 192. Do you find any difficulty is enfeccing the todays which have been promulated by the Local flowerament Board for the control and the vending of the writing of the second for the constraint and the resemble will be with regard to the condition in which the cuttle see kept in Dublin, and the condition of the promis that are rullium the cown

and distributing the milk. They might be m a better condition; I don't say that the dairy yards in Dublin ore perfect dury yards at all.

188. We are not idealests, and I hope we are only

For we are not because, not a representally expect annual exist and prevent. What I want to know is, have you thought that the Orders governing the keepwas of calific and the sale of the milk are emple and cuffi-cited to cover all the alreamstances that come under your observation in order to ensure cleraliness and your still?—Yes, if rigidly carried out, and if all people cognized in this trade were contous in enderwoonsay that there is on enormous improvement condition of the dairy yards in Dublic,

better writidation. I remember meny years ago, be-fore any of these regulations came into force at all. there was a very bad condition of themes to the dairy yards. I remember the cover being actually side by sade. I remember once asking the owner of a dairy yard how could the come lie down, and he said they took it turn about. That is all done away with now, and many of the dairy yards are kept in a very good condition, but I camet my that they are all ideal,

condition, but I cannot say that they are all ment, taking than as a whole.

194. Do you think any difficulty is constral by the voctors of milk no Deline selling milk produced in the contribution of the contribution of the contribution of the percent from whom they preclasse?—I think that these warmakies are very unsularizatory. I think that these warmakies are very unsularizatory. I think that these warmakies are very unsularizatory. I think that speaking now on the subject of the adelice

116. The CHARMAN,—Yes.—Where adulterated milk to ald, and the person who sold the milk is ammunoed, because the milk is adulterated, and them shows a warranty—I say whosever solls the edulterated milk ought to be hald primarily responsible. a case where the person was fined AB for solling as botter in article which was not of the nature of batter. and recovering substential damages from the person who sold it to him. no seek it to min.
196. Your suggestion is that vendors one in the first

metance be proceeded against, and be liable for ony

197. Do you know, Sar Checles, does power exist to 197. Do you know, Sir Useales, uses power taxes or crobble the Senitary Authority to go mut the country fee the purpose of necestaring under what accelling milk is raised which is supplied to the city?—Oh, yes.

198. Con at he done in Dublin under the existing or !--Yes, but it would myship considerable expense. 199. It is only the question of expense that renders at difficult to carry out?-You, and the difficulty in oscertaining whether the milk came from the country oscetasing whether the milk came from the consistent Three would be great difficulty and considerable ex-pense. I think this is the wrong way of approximation that question allogether. I think the authorities an each district in which milk is produced ought to be the sutherities to be held inside for any had deli-

of things in the duries in their district.

500. What I wanted to be clear short was this suppose for the moment you had secontained that milk was being sent into Dublin from a certain district in the country which was unclose, for eastight, sport alteration from the question of infection, have you altogether from the question of infection, have you are heavily as the Public Health Department of Doblin autherity on the Public Hashit Department of Doblin to go down to the county, for the purpose of asser-tating the combitton under whole that milk to pro-duced—Year; I thouk under on of the exploitants and the purpose of the purpose of the purpose supply to the Local Government Beard. To Mr. Wes-son (Chef Veterinary Euspecher of the Dublin Cor-peration)—Have you ever good down? Mr. Warrow—Mr. We most application to the

Local Government Board to cashle us to go down, but the Board replied that the district was already under

201. The Charment,—The question was raised by the Legal Government Board witness, and he seemed (Withster.)—It existed with the comment of the Local it would be a very great expense to be putting on the gate a damy in, say, the County Kerry or Tippersay.

202 T am dealing with the question of authority.

sport altogether from the fast whether the scheme is sport altogether from the fast whether the scheme is special or otherwise. Does the power satist?—Yes, with the consent of the Local Government Board. 393. Well, the Local Government Board witness

in which we applied.

204. The GRAINMAN.—Dad you get permission?

Mr. Warmon.—The right we received from the Local flowerment Board was that the district which we Government Board was that the district which we mustimed had stready enforced the Dairies and Cow-sheds and Milk Shope Order. 260, The Gazmanx—The Local Government Board vilgous conveyed rither a different impression to us

Ser Cramps Cosmont.—In the Bill known as the Countries Bill, which the Corporation promoted, but which percent abortive and was subjected to a pic-liance of the offeness, those was provision for agentian when maniformed by the Level Government

206. It is pretty obvious that the power does 206. It is pretty obvious that the power does not exist and cannot be called into operation by the Local Authority unless with the sanction of the Local Go-vernment Board. Have you srught to have that emended?---We sought to have power to inspect with wherever we knew it came from, but that Bill press

207. That never exists in places in England?--Bi 208. And you sought to have the same power con-turned on you by the Omnibus Bill which was projected a year and a half ago. We would like that power. I

don't think it is a fair thing that the expense of going down to these places should be borne by the City of Dublin. I think that there should be adequate impos-209. That is from the administrative point of view and from the point of view of eccatoray?—Yes. There

after the health of the cows and the shees in the in as not so clean so cutik produced in the city. venture to make a suggestion it in this that I

They have already jurisdiction in regard to discuses of azimula. They have a stuff of 54 Veterinary Surgeons, By Juresaing age all skilled veterinarians, and they have been taught are an acred vetermanana, and may have been to in veterings schools the unportwice of hygiene. have been long of opinion that that should be In veterancy in the control of the c in the production of milk, and naturally there is not

the same independence in the case of a man employed by persons whom he might find fault with as Bosed, or by any body except the local body. 210. Your scheme would tanaster the and 210. Your scheme would tinzefer the nothersty of dealing with this question from the Local Councils to a Government Department "-Yes, to the Department

yards and cow-shofts.

211. You think it would lead to more effective ad minutestics to have this repervision by professional ather than by lay men?-I thank it would. the Veieranzy Department, first or the Costle, and them under the Department, I had great experience that there is a Department of the Section of the European Costley of the Costley of the Costley European Costley of the Costley of the Costley Section of the Costley of the Costley of the pletty-personnel at Dublin. That disease was pletty-personnel at Dublin. That disease was completely weight out in Dublin, ofter leaving were dominated, Orting to the contribute of the were dominated. Orting to the contribute of the Veterloxy Department in this Costle it was garnpletely stamped out. Ever since that was done I have

212 It is quite generally recognised, Sir Charles, that that discuss was most effectively dealt with by the and it is an excernous advantage to the country that the disease has critical diseased. The powers the disease has entirely disppeared. The powers strendy in existence smalle you and your officers to strendy in existence smalle you and your officers to suspect the cover from which milk is preduced in the edity of Doblin 8—Yes. \$13. Have you many reports from your Officers deal-

ing with this branch of the question relating to suning with this branch of the question relating to our-pected and infacted animals?—Yes, there have been asses. Mr. Watson has been now for many years on-gaged in the inspection of animals in Dublin, and I gaged in the inspection of animals in Dimum, and a shink he could give you much more recent information than I could on the subject. Mr. Watson will give you ample evidence on this subject. Siz. wason will give yes ample evidence on that subject.

214. Do you suggest that the powers already in existence seed to be extended or amplified in order to

enable your Officers more efficiently to deal with cases of suspicion?-That would apply to the commission of animals in the public market? 215. No. I am dealany with the court that are bord for the production of mile in Dablin?-A great deal meet

might be done in this way, by more frequent inspecthous of the milk, and examinations of the usiders of the cores, if one wanted to have an ideal state of things, which is very difficult to obtain without enormous experse for the application of tests to all the cown them-

THE Do you think that Local Authorities need an The Do Not using that a local variations need as extension of their powers to deal with his question with a view to giving full competitation to the owners of arcmais that may be confirmed?—I have always been in favour of giving full compensation to the Perfermentary and Departmental namined before

of animals affected with tuberculous, they should be got on the Schelule so that compensation should be given. Now compensation is given only in the case of nifels cores, but it ought to be given in the case of ours of every kind affected with interesticitis. own or every kind above was unseculosts.

217. The componention to be paid under the existing
Orders is, I understand, limited to £207—1t is.

228. Do you think that that limitation in any way
harmore the adequination of this Order, in view of

the fact that your Officers are slow to condown certain or more summitted have every respon to behave this our own offices are not influenced by such a considera-tion as that. I don't think they go into that considera-tion at all, but only judge all the unimals by the con-dition of the disease. I don't think that sufference

them in any argue-219. I want to know whether or not it makes them if one might say so, extra careful in deciding whether or not animals should be merificed, simply because or not azimala should be secrificed, simply because intropoles significant sig

gloud would condern the whole capetas.

220. The ment supply shee not come within our terms of reference. You suggest my your memoaration that power should be conferred on local substitutions. ical with milk coming in from a district suspected That was one of the clauser I suggested in that abettive Bill—that we should have power to prevent nelli-coming in from wast we call an infected district. 221. Do you think that is essential for the safe-

237. Do you think that is essential for the safe-guering of the public health in closes and large com-mettion—It would be essential.

202. In a provision of that kind it is quite possible that a healthly might be inflicted on an individual

283. But your contention would be that for the safety of the greater number you would risk the infliction of a hardship on an individual?—I have always put health 234. Do you think that it is possible that inforton might be conveyed from the country in utilit from a place which had not been dealared infected by the public notiberities?—Yes, of course, it often happens. 234. In what circumstances?—I do not know how

326. I only wish to know exactly what 520. I only wan to more examp with community you had in your mind when you dod theit?—I may may me a general way with regard to the jumps in taken of infection that Dr. Borone, a member of the medical staff of the Local Government Board, who had great experience m the Board of Deland, there's great many tenth's epidemies of exterio fever to milk sent into the overnowies. If that right had been sout into Dabbo instead of into the cremmeries, no doubt there would have been outlineads of outerns favor in Tablic. I have no doubt that mysterious ceses of enferie fever

in Dublin that we could not accertain the cause of must in Diablin that we could not accordant the course or many be due to mulk contagg in from the country where there was come infection—either some member of the family or employee was infected with typhoid or was a typhoid courier. I know of 188 cases of enters fover and size deaths resulting from a typhosi carrie

227. You had an outbreak of typhold fover a year or two ago that was apparently to seable to that extend?— Yes, that could only be due to that cause. We had another outbreak a few months ago of 66 sesses. 228. Attributship to the same cause?-Yes, updoubtedly-56 from the one don't.

229. Can you suggest any method whenchy that dan sure. I am sure try suggestion would not be skepted. Of course, these is a weederful oppliedspin of a best to burnan blood—the Whild Test. It produces mustlee of the blood in most nitrote quantities, and if there are any misra-organisms of enterit force as the blood they are disclosed. We have applied that test in several cases where we suspected that the unit was

engaged as uniform cows and in the distribution of milk would only be so kind as to submit to the test it would certainly memor confidence. I d suppose there easily be legislation on the subject. cannot take hold of a men and take a drop of his blood

ognized and wall.

250. The took does not involve much suffering on
the individual?—No, even a child would not much it.
for separability parieties. It looks more foundable
than it ready is. It reals lightens people when we
say we want a shop of blood from them. If milk vendors themselves world see that those they employ It would inspire confidence in my oustomers and the

public generally. It would be quite tagosethle to de-termine what proportion of the ordinary members of the public would re-set under this tett-ing general superinout has so for born sarred out? the general experiment has so for been extend out?— No manneste results here been obtained. What we have it from rescuedes in the Army Medical Depart-ment of mile nurses. In secretary medical Depart-siver seven years absolutely free from any symptoms of fever, and yet his blood would be absonding with the hydroid beauth.

NG. He would be a source of danger to others?—I seelly think there is much danger. 233. That would be especially neuto in the case of milk—Yee. There is no evidence of it that I know, but I do think that a tephen bouilt carrier is rather a dangreess man. I would not like to sleep with bins. dangeons man. I would not like to sleep with bim.

234. The conditions under which nilk is drawn from son. The commence other which milk is drawn from the own have, I heliter, been sommoned; improved from the point of view of eleminess and hygience—II has greatly superved. Expose who know what the conflicts of the dairy yrade was 20 or thew what the common of the shirty years was 20 or 30 years ago would be very much struck now on re-visions the places. Many of them are all but aboo-lutely ideal places. It is, however, an extremely difficult thing to keep skiry yords very clean.

236. I was alliading for the moment to the condition of individuals who draw the milk from the nows rather than to the conditions under which the cown are level these to the constitutes under which the care use level, because it was quate secopyfied in yours good by that these enqueral in that particular occapation were not the control of the particular occapation were not because of the particular occapation which were the control of the particular occapation and particular occapation of the particular occapation occapation of the particular occapation occapation of the particular occapation occapati dealing with a disease that was due to that. We have in our Regulations a provision made with regard to milkers having clean bands, and there have been proscortions of persons who were found milking with drive bunds. Mr. Watson discovered several cases. noticed one myself where the hands were duty in the

200. And you have made at also imperative that the milders of the corns should be weaked before the milk is drawn off if they should be autod?—Yes, but

237. At the same time, the very fact that such a pro-vision is in existence and that a procession might seise must have a wholesome corrective effect?—Lea-Then there is a province for a see and a bosin of water for washing their knods in. That is insisted on, water life whiring their maps in. That is married on, and formerly those appliances were not present. I would be very gled if the dairy business were accountabled in a compactified; wantle number of persons. I find that those who have a large number of owes, say geometry and kept in a peoper state; that a givent many of the dazry proprietors in Dehlm corry or them hences in a very satisfactory manner. I should like to see the business converted with an small a number

288 Den't you think that would be horsering on the region of controversy of the legislation of a pathle authority were in my way to restinct the industry of the occupations in which people with so empace?—I only express my own pictor with that all our cow

owners should have long numbers of cowe, and that 39. It is quite obvious that experiment out be better carried out under those conditions than where

there is a multiplication of small one loopers?—Xea In English, as a rule, dany propietors carry on a very extensive bearings. 240. With round to the above in which milk

540. With regard to the about in which milk is vended, have these been unprovenents control out?—Yes, great improvements. Heavy of the shops long ago vended not only milk, but turn and coal and other extellers of that kind, and regetables which might be politiced. There is stone of their new. Nothing of an objectionals kind to be found in stops where milk in vended. They can keep calle and breed and things of that aget, but nothing floor to contain infection. 241. Are the shope in which milk is vended in-spected to see whether they contain sufficient air and verificities?—Evs. I think the shops are in a fairly good condition. One confines is that there should be no bedroom near a shop, or forthing part of

a deiry permass.

262 Do you think the powers conferred on you at the present time ore sufficiently wate to cooling you to safeguard public health? Do you suggest my amendment or eithernon?—I think there as wifficient.

240. Do you believe that the milk that is produced as the city of Dobles is superior in quality generally to their wince in sort mit—I am absolutely certain of it, from an immission number of experiments that I made in fermer years. There is no doubt in the world The averege quality of mile contains 84 per cent, of firsty matter and 9 per cent, of other materials, but I find Dublic mile is better than that, I should

say mas Dubin milk on an average, when pure, con-tains billy 15 per cent, of solid matter. I made hun-dreds of malyses of milk, not recently, but long ago, and I ettribute the feet that the Dublin milk is experior to that supplied from the sountry is due to Dublin cown being better fed and getting warm food In the winter.

244. How far do you think the food supplied to the own is responsible for the quililies contained in the suffet.—I think it is more with regard to abundance than the nature of it. Incomenable attempts have

thus the nature of its. Innumerable interrupts have been made to increase the personal good or one constituent of milk by special foods being given, but on the whole they have been failures. It wis flooght you exceld inamense the quantity of first by giving contain being of food, but to far as I can see, I do not thank it is possible by any mode of artificial fielding to very the relative constituents, supposing you are to vary the relative constituents; supposing you are giving as much food as the saimel our possibly take, I do not think you can increase a portionles constirecrease the fit you marrons everything else.

245. You increase the bulk as well?—Xon increase everything. The Dublis coses are well fed, and got good wholescens freding, and the yield of milk is onteinly at least tail per cent, total salids more than the milk of delry cows in the country. I have that upon

decemps of experiments.

246. A series of tests made by you at different times of the year?—Yes.

247. Were the experiments carried out at various seasons of the year with some that were kept in dif-terest confitment—Yes, in every amounties; shielly in the German Agricultural Stations.

268. Are you speaking of experiments mede in Iro-iand?—I am speaking of experiments in the German

24). What I want to know is whether you individu ally or my person under your control or guidance had earned out experiments on nulk supplied from the Dubin duries, and mutitoles a comparison between that malk and malk applied by real from the sountry? —I have carried our experiments on the milk from the Gissawan Model Farm, which I look upon as being the some as Bublin dairy. I got specimens that I saw milked from the cows, and the strippings and all sees milked from the cores, and use strippings can and dedict. Of course, you can get malk of any quality from the core. If you take two-thirds of the milk amy you will get milk not an albumen but deficient for late. But I have got over milked, and compared their milk with milk from the country places, and if siways found that the Dublin milk was superior.

230. Lody Evenano.—I should like to nak Sur Charles a quasilien I put to Mr. Smith an regard to Article 21 of the Durines Ordes, whoch says: "Swery pursuper of milk shall keep a register showing this mance and addresses of all persons from where at any time he obtains any supply of rulk, and shall permit the senitory rob-after or any other officer of the the similary rob-afficer or any ones was.

Local Authority thereto authorised by them to inspect

Local Authority thereto authorised by them to inspect such register at all reasonable times." We asked Mr. Senils, of the Local Government Bond, whether, in the case of milk going to be consumed in Dublin, what guarantee there is that it come from a health or from a registored delicy?-In respect of the milk that so sold in shore?

omis tion is east in simply.

301. Test—There is no guarantee that I know of.

202. Supposing you have a sample, and that it is not only as the electrically allow the one of the time. There is no guarantee to the control of the con

by.

230. Supposing it is not pure milit—It is very
meely the case that milk is below the legal standard and
294. Supposing milk earns as motods with tobe-case
ardous, what remedy as those in Dubbin—If the milk
ardous, what remedy as those in Dubbin—If the milk
ardous, what remedy as those in Dubbin—If the milk
ardous is not below the milk to the proceeding. against. There are bundrels of these convictions.

255. What about the person who sends it up from
the country?—I have already referred to that subreat, and have test I would held the venior reson-

256. How can the vender be some at?-He may be 257. The CRATTHAN -I rather think the question

a discovered that tobecoulous milk was in Duhlin, how would the Duhlin Health Department upoly from the same source should not be sent in?-208. And have you the power to probibit the sele of

the milk?-Yes. 250. Has that power over been exercised?-Yes, often, certainly.

200. And there is no doubt as to the authority to stop the sale?—Xot the slightest doubt. 261. And is there any means whereby that authority

was suspented of having tuberele beeffil, and we provented the milk from being sold. We destroyed gives pig or a cablet.
Side bid you often find it necessary in cases such
you ruler to, to invoke the eld of the local

authority in the country to envice that unclaim milk 203. Have you say further power to ensure that milk from sources of infection does not come into your area?—No. We would have to prove that it was

354. What I want to be quite cestain about as the whether the Public Health Authority in Dublic have ordeally the power to score that no milk from a supported area is allowed in?—No. As I have already mentioned, in one of the channe that I supported in the Bull that was refused power was given to inspect, and to have anthority to go into those to inspect, and to have authority to go into these places. I may say that the milk we found infected and adulterated in Dublis as milk that comes in mostly from the country. May I say that I can pay a com-pliment to the members of the Dairy Association in consisten. It is the small ventors of milk who bring in these milk from the country that we have mostly to 966. It is your matured opinion that it would be destrable that local authorities, such as the Public

Health Authority in Dublin, should have the power

conferred on them of taking steps to piewent milk from infooted nonrows being sent into any other stea?-200. And such powers do not exact at the present a thorough suspection of the places from whose the milk is sent into Dubins, and thus can only be done connection with the Department of Agriculture. Then

they would be independent of any local influence whistever. I know consthing has been done by the recent appointments of the local Councils, but then they would mostly have to fine feel with.

107. You have already mode it quite clear that it
should be under the control of a Government Department?—Yes. I would have them to deal exclusively with the animals used as food or supplying make. I

out the animals used so tood or supplying mak. I ave given that comion many times before. 268. Sir Jony Levrinova.—I was about to ask that see Str John Libration... was seen to see agreeton that you have bought out, Mr. Chartman. Sig Charles does think that it would be in every way destrible that there should be powers conferred on the Local Authority to hunt up the suppliers of prisonous milk, and supposing a can came up by nilway, and it was infected, that there should be a means of gentle down to the country, and ineting where it came from, and stopping the supply to the city. I want to ask Chattes that if he could tell us, or obtain particulars cuitle and the relative soulity of malk. I sak it, case I harmaned to be reading a few days ago a book has steem on the foot that his potents must drink milk from cattle fed or dry 50dder, and not on grains or roots, and I would be gled to know if there had been recent investigations on this subject?—No. I do not know of any, and I totally dangere with his

209. If there is such information I would like to have it?-I think the way dairy cown in Duhlin are ted produces very risk milk of an excellent quality and good flavour. They are fed on roots, too, and someitmes they got oute and grains.
270. Mr. Camrenta.—Is there a sufficient supply of milk for Dublin, Sir Charles?—I don't find ony diffi 271. But you have get to pay 4d. per quart?-Only in the warder, and 3d, to the summer. These are the

uvant prices in Dublin. I thought it was 34d, in the summer Prof. Megram.—36. We. Carrenna.—Those is no ressent why milk at 44.

ser quart should not come from a considerable dis-273. Or even at 3d. per quart you would think that there would be a much better supply than there is at

274. Do you know why it is that farmers are so slow to send milk to the city if you have to pay 66, a quart?—They don't get that. 276. But what they get ought to leave a good margin of positi-Yes.
276. Do you think that dairy farmers are deterred

by the danger of proscutton for their milk being de-frealing 2-I really cannot say. I do not think so. 227. Do you think furmers are constitute prosecuted whose milk is not up to the standard and is at the same time genuine suik! -- You cannot get me to admit that. When the fat is less than 5 per cent, or the non-farty matter is less than 85 per cent, then it is for the defendant to prove that the milk was produced under abnormal ofer 258. It is very hard to prove that?-I have known

28. It is very men to prove when there was very it to satisfy magnifestes very often when there was very dry masther and noor nesturnos. I think magnifestes will accept any resemble excuse. 279. If milk is helpy 3 per cent, of fets and 8.5 non

arm as mast in monw a per case, or true and 5° 100s, solids, it is usual to give a continuous to my that it contains some added water5—Yes. 280. Could it happen that the milk did not contain 85 per cent. of non-collels and yet at the sense time he perfectly pure milk?—Yes, as personny pure miner—100.
281. Even then year certificate would be that it con-tains a certain amount of added water?—Yes, but I would never in the case of milk that was deficient in someolids and rich in fets, give a certificate of adul-

in the meaning instead of in the avening, because some rolls: are nother in the afternoon?—Yes. The after-noon milk is better; that is one of the experiments I made in the Model Parm milk. I found two carious things—that the eldest cowe gave the emailest quantity of male, but the hest, and that there was a great difformor between the morning and the evening milk.

ference between the morning and the evaning matic, 983. It is no great that you would almost imagine that the milk was westered T.-Yes. 284. Weeth you be surprised to find milk sold in Bublin under 3 per cont.—Yes. 285. That would raise the presumption that it had been watered T.-Yes. bean whiteful?—Lies. 286. If think many cows give as low as 25 per cont. is the morning?—Yes,but they would not all give that. 287. In the overang prehaps they would give 4 per cont.?—Yes. There would be a great difference be-

258. You don't think, then, that there is snything in those Orders that frighters formers from producing milk to send to the office?—I have never heard any milk to send to the celestral have never heard any farmer asying that he was afraid. You would be more black to hear that than I would. I do hear sometimes quality of the milk up to the proper standard. But it does not recoveredly mean that it is dis-

291. You are aware of the regulations that are in force with regard to damee and cow-sheds?—Yes. 992. Do you think that it would be very imperious that these Inspectors should pay more situation to the question of the eleminass of the cover and of the alkers rather than to regulations as to distances and sress?--Well, I should like attention to hoth. 283. At the same time, the danger of the minure is that if may get into the milk?—Yes, I have often found it, and ham. found it, and hars.

294. There is not much fear of bacteria getting into the milk from wet manure?—No, it must come from 295. Or the hands or clothes of the millows?-Yes. 205. Or the hunds or clother of the millows?—Xes, or from the dust stande in oversquing the yard.
206. Do those smells from mature do may harm to the milk?—I do not lines. I do not line had smalls in any ofercomissions. Nature has given bed things bed multi but make no any other. I would work when the milk of which and a small sit of I could help it.
207. But at the same time is has the besterin that get 207. But at the parameters.

258. And it is not sufficient for an Inspector to go 299. You would lay more stress upon awing that the whooping cough being sent into dairy yards to get rid

of H.

300. Sir Jone Leveragers.—Are not these smells
which indicate that there is decomposition of a very
foul character?—Yes. 360. And, on the other hand, there see smalls which are innocent?-There are 800. Prof. Mintrase.—Can you give us any idea of the amount of male that comes into Dublin every year from the outside?—Well, Mr. Westorn has been collecting statistics. I think that aboot half of the total consupportion comes in. I see from the statistics of 1965

like 12,000 gallons come in duly 3H. What kind of monocion goes on when mile case in by train?—The Sanitacy Officers attend at the reliesy stations and take samples for emeripation. 304. Is it a chemical or hasteriological examination? Both, but generally chemical, 303. Supposing any sample of milk was found to have tehercle builli, what weakl you do?—Before we discovered that, the milk might have been all drunk. If we found that the milk was bul, we would ware the person not to get milk from that source soam, and

we take a note of where it came from. 306. You have coming into the city a certain quan-

Asses and allow it to some in?-I think that all the exemptation, and if there were tuberele backle torn it was allowed to be sold. Any suspicious milk

ought not to be allowed to be consumed, but that would be very expensive; but it is done in other either —in Paris, for instance.

In Peris, for molecules.

On And in Manchesille, very position you find milk Manchesille, would have be described you should go down to the country to get at the cover that produces it send have it described you would go down to the country to get at the cover that produces it send have it described you'll be not been to be a face of the country of

the daines here and seen how the milk was obtained \$12. What time do you tlank the cows are milked in the morning?-About five or six o'clock in the

morning, sometimes at four. -very early in the meening.
344. How are the byree lighted -By carolies or

hamps.

HIS. Stable lanterna?—Yes.

HIS. Do you think it is possible to get slean soult if you have so Bitle light as that?—Well, I do not. H there was great our taken there might be—throwing the light on the netual opot where the milking was

taking place. There is no other way of doing it, ex-337. Is it possible in the Winter under custing cir-comstances, unless you have estale in such numbers that you could afford to turn on electric light, to ensure clear milk; to ensure not morely that the miliery

sure clear mine; to charge not incover with me innerwhands are clean but that the cover ordiner are properly weshed, and that the cover generally are clear before militage?—I do not say it could not say it could not be to be. It would be very difficult, but I would not say impossible. officery and the country of the coun recent amprovements in every way. salogs all the more recent jusponements in overy way, 319. You do not find that where an individual no-hold a dense cows said locks ofter them himself or he-mostly, those now get far more careful site electrical than do-site, there is now get far more careful site electrical than do-site hand of a man who has 60 or 70 cows and a number of hred relievant—My superdence je that the works

of fired magents.—By experience is that the worst district were where there were only a few cows.—the place is badly distinct and the cow is dirty. All the grow dury farms in England are wookerfully clean. hundreds of cows are kept. Look at the Ayles-Dairy Farming Company. These places are models of eleanline

models of creamment.

Prof. METSAL—Score of them.

590. Dr. Mooman.—Do you hold a very high opnion of the disester what of milit?—Xex.

591. The yearspet and the oldest take 117.—Xex.

592. It is universally taken by every member of the occumently?-Yes. 523. In there any substitute for now's milk?-I don't

334. Of the same distrible value?—No. The dictorio value of milk is very high. I look upon the fats as consistating very nearly half the value of the milk, though it is not quite a third of the total solids. I asparated milit is not held the value of whole

325. Separated milk is of certain darkette value?--- I an sorry to say too much of it is used 356. Is not continued milk used largely as a sub-sistors?—It is growly used in Dublin. It is not equal to the ordinary milk, because there is an excessore amount of sugar in it. I find it is very largely used in

327. You don't accore it of being a carrier of toker-

culture?-I don't think any proserved food so equal to 338. You don't consider it a carrier of toherculosis

or typhosi?-It se post so possible to cosur in toodensed milk as in any other. 529. And there is no protection to good against that?—It is very difficult to exemine all the time. 390. There might be a label guaranteeing quality?— I don't ass how they could do that. Where there is a

to statutes.

SSI. Does the process through which it goes tend to destroy any germs?—It has that tendence.

SSI. Miss McNarzz.—In the case of milk cold in small shops in poor districts, is there any regulation as to low the milk is to be stored, or may it be stored

208. Do you know is that being denc? I think there re very few places where the milk is not corned. There have been convictions high on that point. think we may claim for our Corporation By-Laws that with regard to the covering of milk vessels. I know no other place where there is a primitly for having the milk vassels unconvenience is a primitly for having the milk and unconvenience is a primitly for having the milk set very long ago, and we know our many of they are. I believe a pract deal of the discribes that provided lately in Dabila was due to flow infecting the food.

e 2001. 384. You may there have been recent presecutions for ashing milk from uncovered vessels?—Yes.

805. Were face imposed?—There were some pensitree. It would be more for the purpose of making ri-leases that the possition were imposed.

391. Do you think that will have no effect?-Yes, it has had an effect, 597. The CREMENT.—You have already expressed the options that no form of presented food is equal to the fresh tool. Have you say experience of the new mothed of preserving will to a orbiffed herm?—Dried cult.; I have pretioned in it. I have been di-personal going to the South Pol and places of that lind personal going to the South Pol and places of that lind

person going to be 800th Pete and places of that hird acting it would be very mire.

1000. We see not very much concerned with thou, it for Charles. Our concern is with the people of the country. Is it used up. Dubba in her of milk?—I have hered of no one using it in fine of milk, the only thing is the concerned until.

as the condensed surfit.

380. Have you say caperacase of post's mile?—My 380. Have you say caperacase of post's mile?—My 380. Have you say caperacase to one to have the colour of the softent steel. I believe I and the coly analysis of the softent steel. I believe I and the coly analysis of sometimes of the softent steel. I believe I are the coly analysis of sometimes of the softent steel. I believe I are the coly analysis of the softent steel and the softent steel and the softent steel collection of the softent steel steel softent steel st favoushly; it is sweeter; it has more sugar.

Sal. From a district point of view, what is its reintive merri?-Not quite equal to cow's milk, but it is better than sheep's milk, which is still sweeter.

S42. From the braith point of view, you as \$42. From the builth point of view, you say you have no objection whatever to the substitution of goat's milk for cow's milk, where the latter is not

goat's mile for cown man, which is largely used, and an excellent article of food. Mr. CAMPRELL For children? Yes. I don't 344. In regard to the confessed milk of which Dr.

Site in regard to see consumes some in white-Moorhead spote, that is allowed to come in without any regulations whatever?—Xee.

546. So that if any persons sending milk to the con-densed milk instory chase to be excelses, there is no crosses of preventing that—There so to legal stag-monant of preventing that—There so to legal stag-346. There are no conditions promuled so that milk would be clean 1—No.

347. Don't you think that is wrong?-It is. 348. You think that these presons should be under some regulations as persons scuding the the sides regularizes as persons southing the whole will be Dukkin's—Yes, and I shink it should be etan-declised, and I think the Department of Agriculture ought to fix a standard for battermille, which is extenurely used. A great many poor people use butter-milk, and there ought to be a standard. I think I wen

the first to put a standard on it, allowing 25 per cent. of water to be added. 349. The Chapters, Mr. Smith suggested that all the regulations sowering milk should also include its the regulateles severeng must appeal the meants in by-preduced, buttennille, asparated milk, butter and clares—would you appea with that S—Yes. In the North of Indiant butterprish is not very extensively, and it is largely length by confectioners, and there are surely english to be some standard. The standard I surety ought to be some steadard. The standard I would fix would be 25 per cent. of water—25 reflects

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Sir CHARLES CAMPRON.-Nov. 22th, 1911.

of water to 100 gallons of milk. It people are going to versi it there ought to be some limit to the quantity of water. From some experience I had myself, 25 pel-lane of water to 100 gallors of milk would be sufficient in making the distorring.

Sid. Mr. Camresia.—Butterall's is extremely diffusit to procure since the occameties same in 9—Yes.

Sil. Because there is no churning at home?—Yes.

NG. Except in the North of Iteland, so you say?-

SSS. The CHAIRMAN.—It is used for baking purposes?
—Yes; and confectioners use it largely 335a. And in the production of histo-made brend?

-Yes, It is a very good article of food, and as long as it is no neithful of commones there ought to be a standard to it as well as the opposite of milk. May I say something more on my one healt?

354. Cesteinly.—It is in the prices of my ovidence.
It is on the extport of the notion to be taken where
you have every reason to believe that milk is infecopristors, and in this district there were at one time propriesars, and in this queries there were it one time 130 cases of enters forer. Of these, 123 cases all took the milk from one only of the 30 duries. In a case of this kind is was absolutely certain that the milk was infected, and yet we found we oruld take no action to provent the milt being sold. The matter was referred to Mr. (new Sergond) O'Bran for his advance. The Law Agent of the Corporation, Mr. Rice, and the As-sistent Agent, were of opinion that we could not take

sotton, as the measure man was interested the termity of the vendor and his servante extended that there had been no recent disease in that family or among the employees. The opinion was given that we could not interfere with the side of the milk when we had in pood of there being surco-organisms in the sulft, because the sulft was excellent, and these was the existence of the discher their birth like like any case of all the surfaces of the discher their birth like like any case of the continuation of the surfaces of the surface of the continuation of the surfaces of the surface of the s poorf of there being succe-organisms in the milk, be-

no slines in the dairy, yet it was certain the milk was

infected from the notion of a typhoid carrier or come other source, surely some action should be taken. So I think a new regulation is required to meet a case of that hind. I communicated with Mr. Berrell on the subject when the Milk Bill was before Perliament, and he said that the matter would be looked into; but the Bill fell through. I found in another case where if people had enteric fever out of a small dairy, yet we could not prove that present in the femily had typhoid

355. Was not that case proved to be a carrier?—We could not find out. We made extraination, and got the Widel test applied, but I say that the more fact that a large number of persons consuming the milk from one dadry, and contracting typhod favor, is proof enough that the darry is infected, and I have the dece change that the dairy is intested, and I have the Commission will consider that particular point. 336. It is really one of the tenars that we want our attention directed to-what fresh regulations are necessery to safermed the public health with regard to the and you have given a suggestion which you think is constituted. I think it is the mast important point I have brought before you. I would like to say that I omennal?—I think it is the most important point I have brought before you. I would like to say that I have always found that the dairy proprietors in Doblin were willing to adopt any recommendations made to them. I refer to the people who are connected with the Association. We find they are always inclined

to adopt any suggestion we make to them.

357. The Cuantum-Thank you, Sir Charles, we To Mr. Wetcon (Chief Veterinary Separintendent, To Mr. Wilson (Chail Veterious Separatendens, Dublin Corporation).—I think it would be impossible for the Commission to deal with your important est-dence to-day, and I believe to-moreous will be a busy

Mr. Warson.-Any hour on Priday would suit me, The CHARLES.-To-morrow we may be able to give

you some definite information as to when we can take Mr. O'Bazzy.-Can we take any of his evidence this

The CHARMAY.—I see afreed at it too late now. Would it do, Mr. Watson, if we postposed hearing your evidence until next work? Mr. Warson.-Yes, that would suck me.

The Carestinian then adjourned until the following manual.

THIRD DAY .- THURSDAY, 30TH NOVEMBER, 1911. The Commissioners met at No. 5, Upper Castle Yard, Duklin.

Present :- P. J. O'NEILE, Esq. (Chairman); LADY EVERARD; Sir JOHN LENTARONE, FROSE, ALEX. WILSON, Esq.; J. R. CAMPBELL, Esq.; PROFESSOR A. E. METTAM, B.Sc., M.R.CV.S.; DERMOD. O'BRIEN, Esq.; GEORGE A. MOORHEAD, Esq., F.B.C.S.L.; MISS MARGARET MCNELL. S. W. STRANGE, Esq., Scoreform.

Professor R. J. McWerrett, v.s., s.s., p.cu., p.n.e.p.l., exemined.

558. The Citamoux,-You are Professor of Pathology in the National University?—Yes, in the University College, Dublin.

\$59 And you have made a special study of Buc-teriology?—Yes. Set) Recognizing the importance of milk as a food for human heings, I take it you have strong views as to the necessity of its being produced unfer clean and hydrone confitions?—Yes.

361. Are you at all conversent with the powers con-ferred on the Local Authorities to secure this end?— Yes; without being exactly a logal expert, I have a general size of what they can do in the master. 842. Of course, in the parents of 6th study of the waxons humabae of Batteriology and research consected therewith, you have from tune to time course.

is contact with the administration of Local Authorities?—You, I are.

345, And you recognise the importance of having these Authorities endowed with power to ensure that the milk supply for the communities over which they preside is produced in a bealthy configure.—Tea, I think it is their duty se guerdises of the public health to see that milk, which is one of the most important articles of human food, in produced under suitable con-

354. Speaking of milk as a food, In it your opinion that milk to used by the general public to the extent that its utility would warrant?—That is rather a diffisuit quotion to answer. It is very extensively used the general public. 365. But do you think that the juverile portion of Professor E. J. McWinner, -Nov. 30th, 1911.

the population is using milk to the extent that would be the population is using milk to the extent that would be recessary to their physical development?—I am under the general impression that juvenible in Iroland—that at eithiren—to not get as much milk as they ought to, but I am oure you will be able to get much more to, but I am oure you will be lease to be definite information on that point from persons occupying the position of Lady Visitors, nurses and others with the content with the who are more directly brought juto contact with the

poor.

396. I was anxious to have a professional view on
the question which the Commission would regard as
of very sensor importance?—For some on quision othe
to diver an importance?—For some on quision othe
to diver when it is grounded on actual observation, and although I have the general impression
that what you ouggest is quite tree. I am not able
of my own protectal knowledge to give you say exi-

on my own pressual knowledge to give you say evidence on the points.

387. At all events you helieve and subscribe to the principle that milk as a food for the purealle population as one of the best on which they could be consisted?—

Yes. I have heard they get too much too in Principle. 368. Are you familiar with the principle on which

milk is confirmed and the other principles on which milk is preserved for use long riter it is drawn from the cow!—I am familiar with the general principles upon which the condensation of milk is conducted, but I have payer actually been in a Conducted with tory, and I cannot speak therefore with personal know-lege as to the details of the manufacture.

380. What is your view with regard to the relative merits of condensed zells or zells preserved so a food as compared with freshly drawn milk?-I should ismor as a food to fresh milk.

370. I take it you halve milk is very often a source of infestion to human beings?—Yee, I do. 371. And when exposed to the danger, it most readily sessimilates disease greens and distributes them to assimilates disease germs and distributes them to brown beings?—Well, I cannot exactly subscribe to the term "assimilate." Hilk is an excellent national human belinger—west, I cannot exactly successes as the term "assimilate." Milk is an excellent nucleon medium for some, but that it has any power of attract-ing disease germs to itself, as I have seemelims hard

dieste a certain power of attraction or section. We apeak of a sponge as absorbing, but that is not coactly onse with milk. What happens with milk to, that the case with mine.

a disease-perm gains access to it, just as any particle would garn access. Milk has no more affinity for disease-perms than for dead particles of any kind. 375. So that any Squid might be as easily infected as milk?—Yes, and the only difference is that milk affords

STE I see that you believe that infectious diseases such as typical, toherculosis, and infautife distribute are very often caused by infected milk?—I am of that

\$75. And you have in your experience and investiga-one satisfied yourself that infection has been conveyed by the milk serroly?-I have

STO. You dealt with an outbreak in the Pembroke Township some time ago in which it was alleged that dipatherm was also discriminated in the same way? 377. And the result of your investigations

particular case did not entirely confirm your belief that partitioner case dag has ensurely column your behas some it was not—No, I do not hold a very strong view with regard to diphtheria. I have not sufficient experience regions to separate to the control of the motter. I know that others have found what appears to them to be conclusive ovidence, and other opening good authority remain acceptant on the point. I perfor not be express

308. But you are quite convinced that enterte fever is a malady semethores arising from infrated mile?—

370. And I see you had an opportunity of carrying on investigations under the War Office?—It was order the Local Government Bosed, as a matter of fact. 880. It deals with coldiers, and I named the War-Office regist be responsible?—The War Office and their Other regist be responsector—the war three sent serve own dooter, or aborder of the Royal Array Mechael Corpe, Captain Dergon. The vittlers were some 28 in crea-ber, and all consumed, in an unbelled corolitor, the milk from a certain dairy. The girl who setted as dan emaid was found by myself and also by Professo dangership win some or mysen and and or account More of Queen's College, Cork, to be correling typhoud bartlis in the urms. She had suffered from a severe attack of the maledy some years previously. It is un-necessary for me to go into further details, as the facts

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are fully sel forth in my reports to the Local Govern-ment Board (1866 Amount Report, page 105, and 39th Amuzul Report, page 803, and also in that of the Medical Inspector, Dr. Browne (186th Report of the Local Government Board, page 404; 381. That brings us to the very interesting question of the typhical corner; the theory with regard to the descentration of typhical germs?—It has got beyond

the stage of being a theory. It is as well demonstrated a last as any in the whole of Bacteriology. a fact as any in the whole of Besthenickey, 882. De you subscribe to this theory that in order to source the public against the image of contamination from that source, if would be described that those who are engaged in handling milt should be subjected to the wilded test—Pack, that is an opinion to what I must becattly subscribe. I am electly of consistents that no persect should be ablewed to handle milk in the dairy the field whose blood gives a positive World test. Moreover, this is an emiconcerned, the whole procedure is over masses and repre-rainate. It is just a more prick which causes no appre-

ciable pain.

388. And there has been no general experiments
carried out to determine winst persuasing of
ordinary healthy branus beings may react to this test?

— You can get in in his way—paratholity the only per-—100 ch0 geb to in time way—presticing use only pre-sons who come into play in this matter are persons who previously had an attack of typhold fever. Ordinary previously had an situacy of typhoid lever. Ordinary human brings do not react to the Widal steet when it is exclosed under peoper preventions. Most exten-tive investigations have been made in Germeny at to how many of those who have had a previous situack of typhoid lever continue to extract the germs, and out al 100 persons who previously had typhoid about 3, speaking, continued to harbour the serms. the infection—ambulatory cases—in so wild a form that they or their doctors have failed to recognize the fact, and that is why it would not do to confect onehet, and that is with it would not so so to consider self with inquiring from dairy anisitants as to whether they have had a previous attack of typheid. 385, Mr. Winson.—Might I ask whether the hun-derd codes to which the Professor refers are supposed

to include these ambulatory cases?—Yes, 396. And five per cent, approximately of typhoid cases became carrier?—You.

387. In these say meses of sacertaining how many of the ordinary population have typhoid?—I cannot of the ordinary population have typhoid?—I cannot only the ordinary population have been presented in the ordinary properties.

on her country, pre-mention the percentage.

386. Would it be obtainable anywhern?—I think the Register-forman's untuities and the reports of the Method Offices of Health might give the necessary

information.

390, Prof. Merrox.—Of course, it is a well-loyer fact this people might give the Widtl heat and not be typhoid centire having recovered from typhoid?—Tes, but a year afterwards I should say the peculiarnos of the Widtl test would very strongly suggest the run-piction that the person who gave the test would be a hostile strong that the person who gave the test would be a parted that he person who gave the test would be a typhoid carrier. 100 H s person has recovered from typhoid and skill gives the posture Widal reaction after three months. it would to a certain extent show that he was a typhool carner?-It would tend to make one suspect if you

strongly, and if he were a dairy employee to obtain and strongly, and if he were a many chapture to occase was assumes specimens of he coverts.

20. Sur Joux Lineaueux.—The Widel is a perfectly hampless test, and is no avaisance whatever can do an open to the indimension.—The is so. The only thing this in draw to the individual is that of the deeps of his blood are taken, and this can be done quite pairtically.

392. Dr. Mossuman. Do all patients after typical react within three morning No, the reaction of that the property is come people sooner than in others, but it may be said that as a rule the reaction as in most cases reduced to very small dispersions after three mentls. It must be been in which that here we ceres in which the reaction as only elightly in oncess of that offered by normal blood. If there was still a theng reaction after these months I would suspect that

the patient might be a carrier,

205. How king has a petitint remained a oursier? Well, I am afraid that one must say in spide of all the effects that have been adopted, that "once a corrars, probably always a carrier." arried a use in which a patient whem we took lote the hospital, and whem we treated medically and sur-

Secretary for communication.

394. Sir Jones Laborators.—You are of opinion that 394. Sir Joss Larragoser—Non are of opinion that it would be helder to bare all pressure exmeeted with the desity industry and handling milk, tested?—Too, 395. Miss McKnima.—World you be satisfied with one examination?—For postular purposes one commission well seffice. It have never across across securior

3%. In the case of a daily worker, if one negative coult was obtained would you consider that a suffireacting more strongly against one strain of d booth than agarast another, and we have the typical tooth than against stateler, on we have the possibility that the patient's serum might agalotisate the Paratyphoul bacilize—a banillon which is closely albed to the typical banillon and which is the caves of a disease albed to typhoul and also known to be propagation by milk. I am of opinion that where the land of the propagation of the propagation of the control of the land of the l peoplets by first. I am of options that once the peoplets to be deaded is whether a given present to or is not to be allowed to hundle mile the Wikil test

ought to be carried out-net by any ordinary doctor, but by a skilled becteriologisk with a well equipped 60%. Dr. Moccomus.-Do you speak of living cul-

568. Can there be any reliable results from a dead culture, do they result. They do, and methods have setually been introduced to combin clinical physicians to apply the test by a dead oulture. I myself to apply for test by a area outside. I mysest the shows used living cultures, and the general impression left on my mans is that bring cultures are reperior to dood ones. In fact, I am of opinion that the Wifel lest as not one that could be very satisfactorily applied by the collinary practationer. The tents should be con-

by the collinary practitioner. The texts should be considered on a represently couplered historistry.

300. Mr. O'Benez — Does it take long to see or-vitter.

be bode with uncert—could like long to see or-vitter to the body with uncert—could like be possible to get all measured investigators would be needed, but the thing would be quitte possible. You could see of the people Wiley within the Relfast sphere of unforcer to a Belle specially, out of Dublin, aspecialists, and of Dublin aspecialists, and of Dublin aspecialists.

and so on throughout the country.

460. There is a sufficient number of people whose builders it is to do this. Bar's realogists, and not omiu.c. practicing physicians?—Certainty.

401. Str Jose Lawranova.—Can an ordinary practic and physician do the elementary work of drawing the blood and sending it to the laboratory?—As a matter scarged the technique necessary to cellect the blood on sufficient quantity and in a athlefactory way to con-duct the Widal test. I am in the helps of receiving aprelment from practising physicians which are quat-

instignately taken. There is not enough blood and it is not properly souled up in the take. 902. Mr. Cascurit.—How many tests could be mule 602. Mr. CANTRILL—How many tests count ne most in the course of a day to a laboratory by one man?—
By one same, I mean a man working with his sandard.
By one same, I mean a man working with his sandard, positive when I have marked. He is difficult to ear the number a man could make in a day. When you are doing a number of them together it share a sharter time than when you have to you up all the approximation do a sittingle care. With any behieveber procurees I

to do a single one. With my laboratory resources I could do 30 or 40 Widal tests a day. I might be able to do even 30 peakage.

466. It would be necessary only to subject to the

to dis even 39 perhaps.

480. It would be necessary only to subject to the 480. It would be necessary only to subject to the text of the subject of the subj

of the danger would be obvisted. I don't really 1960s uby it is that darry employees are generally so leath-somely dirty. In Berlin, if any person who has any-thing to do with the milk or food supply shows himself in paths in abvisceing dry clothes, or whose binds are darty, he can be farethy washed by the pater. 305, Mr. Whans.—Would you be prepared to recom-ment that "I would. It would not the excel-tion." 496. You would then, I gather, be of opinion that the use of milking machines, and of any labour saying applament which do away with the contact between

the skin of the human being end milk, would be a protective agent?--Yes, a most excellent protective 1971. The CHARDIAN.—The presence of typhoid genus to a human being, or the fact of his being a carrier, done

apparently be in perfect health. 408. And oncommons that he is a typical merice?-

409. Of course, the danger is engrasposly incremed 410. Lady Evenue.—Is at only milt that a typhoid carrier can infact?—He can infect any article of load that he comes in contact with, and instances have been

411. See Josev Levyssoors.—Is not milk a thing he is very likely to infect\*—Experience has shown that 412. Mr. O'Benns.—And water?—Well, water is generally supplied from a top or pump, and I don't think that water is usually mentipolated in the same

413. Water used for washing the milkers' hands nugbt contaminate the bands of other milkers?—Yes, or might indoubtedly be contaminated in that way.

H. Water that is so contaminated with tymboul

germs and druth by cows, do the germs pess into the milk? I think not. There is no evidence whatever that a cow is expedie of being indected with the typhoid 415. Ser Joux Lovenson,-Is the infected material carried in the exercise.—The virus of typhoid is present in the exercise, both solid and liquid, espally in the solid excreta; comporatively seldom in the urrar, case to which I have referred to at length in my not on the solid exercis-

416. The Chargeay.—Do you regard the cedinary buses-fly as a common agent by which milk may be infected?—I think it is very probable that in a small be infected?—I think is severy processes to a mi-minority of cases indention takes place from flies. 417. Mr. O'Benne.—There sixual be in this case very considerable danger anywhere, and particularly in the country, from thes setting on any solid extrata with greens in 10—they can easily it away?—You, on their feet.

their fret.

418. If they drop into milk then?—Yes, and if a sofficient krogth of kims was to clopes to allow the norms they bud dropped into the milk to recrease and 419. Sir Joses LENTATIONS.-And the obvious remedy

is to keep the milk cowered?—That is a most imperiant thing. That should be most represely enforced. 410, Mr. O'Bens,...The files can take it into water that is used for westing?...Fries solders die in water. 421. If they fell into the water would they release any grass that might be clinping to their feet?—We doubt they would. What brings them into contact with milk is that they are ettracted by it.

422 Mr. Camputa. The sanitary arrangements for farm workers, so us to provent files from the exercts golding into the milk, is postupe more important than long as the manure here is composed of manure solely

423. But more frequently about the dulry premises it is to be found at some distance, and the question is whether the Inspectors follow that up?—I think that

18

Professor E. J. McWessery,-Nov. 30th, 1911. in all dairy yards the methods for the disposal of human At the present time no attention is given to that matter?—I would not like to say that no attention is given to it. If I were a Vetamary Impertor I should

pay attention to u.

426. Bet you are not?—No.

426. Prof. Marrant.—Is not that a question for the
Medical Officer of Health?—Yes, or one of his Samtary Sub-Officers F., Mr. Cancenta.—The promises are inspected by Vetermary Surgeon, and not by the Medical Office

428. The Charge of .- I think it is only in a case in which a presention was pending that the Medzei Officer of Health would then be requested to come in

439. The Believing Officer can always report to the Medical Officer of Health on certain conditions prevail-ing an certain localities, and it then becomes his duty to inspect the place to determine whether the conditions are injunious to the public bealth?- Is the Re-

Beving Officer a Secutary sub-officer? 450. He ss. It is his duty in the first pretence to make an inspection in order to see that things are in sub-officer is supposed to have some little special treesing, and I think that ought to suggest to him the in-epocious of the mode for the disposal of human ex-

401. Mr. O'Benex —Supposing legislation was possed compelling all male suppliers to be literased, and regratered—that is to say, that the premises should be in-

482. Would not that be difficult in the country? - I don't say that. They have plenty of space in the country, and wherever bouses are put up they are couplied with out-office, and those are often converted into ben-house

The CHAIRMAN,-That is so. 483, Mr. O'Berns.—It is an awielly deficult theng to get people into the tablet of making use of the proper provision?—You must educate the people by a periodical 484. Sir Joen Laurenour. He there may way by ex-

son, our dens narranner, an there any way or en-amining the milk of insparing whether that rails is safe or net? You mail you have not succeeded in isolating the typhoid hardless from milk "Fes. The toolstice of typhoid healths from milk at difficil. H you add typhoid healths throm milk at difficil, H you add typhoid healths attificially to milk the problem as navrowed down and it is possible, even then not without difficulty, to sobile the boolilus, but I attent no great value to negative results from bacteriological exami-nation of milk, and I have in many cases endeavoured 635. My. CAMPRILL.—Perhaps you are not aware that the Inspectors are lay most in a large number of cases.

436, And that comething abould be done to co-ordi-uate the methods of the Inspectors?—Yea, 487. From your knowledge yes know that there are many Voterinary Surgeons who take quite different stave as to what is summary or not?-Oh, yes. 458. Str. Juny Leverstorn.—Are we to understand that special directions should be resued for those per-

that special directions about be issued for those per-coars in the discharge of them distance—I would leave them as bittle option is positive. I would supply them with a form. I do not have the proportion in of any use if the things to be imageded are to be left to the will of the Improcler. The missistence ought to be converted into an almost mechanical process.

439. Who would be the central anthority who would 440. Mass McNenn,....There is something in that way done to several of the American States—they have sects cards for the american datas—they have sects cards for the amprehen of digites, and the In-specious must return these 7—Yes 441. The Characo,—How for is multiprintion a

safeguard against the presence of hyphood germs in milk?—It is relatively easy to hill typhood germs in milk by postourisation. A temperature of 140 or 150 Faluenheat kept up for a few minutes will kill the

442. Have any experiments been carried out to show conducted, became you cannot produce typical fever in animals by giving them mult with grams. You would have to experiment on man, and that is not

665. How fer raight the consumer feel that he was protected from this sanger by using milk that was subprotected from mis sanger by using milk mis was sub-ject to pasteurisation?—From what we know of the habits of the thermal death limit of the typhoil bacillus it would be quite easy to determine a pastormation temperature which would be sufficient in order to comisying the infection of typhoid.

milit being infected is murraned by the length of time?

—Yes, by the interval between the entennes of the gerror into the milk and the time it reaches the conrumar. The result one is unposted on exceeding the part hold good in chorerolous. Typhod would multiply at all lemperatures between 8 or 10 degrees entityrade and 60 degrees, which is over blood heat.

445. Tuberole bestill do not multiply?—No, they do such the three section of the managery re-sec, way as and multiply until you got up to somewhere shout 30 digrees, and even then very slowly. If the milk were best took below 10 degrees, from the times it left the cow of received its supposed infection, if think that shall be a such as the multi-way and the multi-way

440. That is a low temperature?... You 447. Mr. O'Bruss.—It would set so a pressutionar sensure to have the enormous quantity of milk brought by team, involving bous of travelling, conveyed in velrigening cars?—Yee, and that applies to all objeckonship becill that find their way sate wilk and render 448. Lady Evenuer.-Milk heated to what degree

will kill typheri?—They are not very heat resisting. In anyeering a question like that one must have regard not only to the temperature but to the length of time the temperature is lept up. When sterlining Typhosi and nonoritingly I think it is better that we should say that a temperature of from about 60 to 65 degrees. Configured be kept up for about 50 to 65 degrees. owation against the germs if properly carried out.

Yes, and the whole grid of the matter lies in the words

"if properly carried out."

450. Mise McNuna,-The risk of imperiest pasteur. maken of mile in large quantities is greater than in small quantum?—The difficulties is heating increase in geometrical progression as the bulk of the mass in-

451. Dr. Mcontusus.—Dow the pasteermetics alore the character or micrifere with the noticent quality of the milit "That is a very big question maked, upon which the most wakely divergent views have been on.

which the most widely corrected authorities and usp, ground by apparently competent authorities and usp, ported by statistics. All I can 30 is to give a greened impressen. I can of options that when you hash milk above 130 or 140 Fabreshird you deating, person obsystems that are in it which probably have a period of the probability.

ridirect effect upon the notifit 4th Prof. Merray.-The milk becomes de-vitalized? 402. Proc. NETRIN — TO milk becomes de vitanzen — Yes, and experimentés are understedly unwithingly sarried out on the human subject on a large sealer. When small shildren are taken from the mather at a month or so and brought up so milk of that kind, they sometimes develop a trouble called "sourcy rishets."

I know of a case of it is a child as a family I know will, I know the whole details of that case, and II know how the mother select. Sie used one of these appealus (Soxhitt) that much have carried the milk to within a few degrees of the bedling point. 433. Miss McNegat, .- That is what is generally done for dementic purposes?—You must let me say, lost it should be assumed that I am an opposite of sterilisa-tion, that I am in to way opposed to the pizotias on a large scale of pasteurising children's milk.

654. Dr. Mosaman,—Is there nothing you can per into the milk to make up for what is taken out by the pasternisation?—The passe of frell—of an cessage or grace—or the pilos from raw loof might be used to replace the answers which the milk has lest in the

455. Lody Evensur, ... Is it your experience that milk when postcursed if left encovered absorbs the germe? greater scope for the development of any germs that greater scope for development of my great many many fall is—dirt germs. Accordingly, I am rather of opinion that pasteurused milk left to itself for a long

mik closuly bandled. 456. Proc. Merron.—One explanation is that the putrefactive organizes as a role form spores, and the source the not idled?—That is an executed fact which placed on a firm basis to Phore. He showed that the cediracy pasteonistace haves in ordinary milk a non-ber of speece which are not killed. You may recognise their presence in milk by the peculiar bitter tusto, and such milk taken by young shidawa may produce in.

407. St. Jeen. Levelann.—The lastic germs are acid-formore?—Yee, they are a powerful protection against the potentiating recover geting or in the nilli-Milk does not undergo ordinary paterhadron. It be-cover mixemally soon, but not until a very advanced

state does it emit a putrid odoor. 458. Mr. Winson,-I have not here statistics from 608. Br. Windows—I have got incre statistics from Copenhagen dealing with the garve effect of paterine-tion after perfectivation. The figures are given in the annual medical report for Copenhagen for 1901, and show that 36 cut of 105 sweptes of pasternised whole will continued upwards of 1,000,000 bustons per o.e., will continued upwards of 1,000,000 bustons per o.e., sulfit contained upwards of 1,000,000 bacteris per out-of shot these consisted citiety, not of lastic acid berilli, but of bacteris of potentiation, and the berilli, but of bacteris of potentiation, and the decistra of the whether it is ofvended to form decistra or to whether it is ofvended to dexict to the whether it is ofvended to dexict to the second potentiation of market dexict to obtain general pasternization of market formula, the has been negatived by asympt—In-that I fully agon. The word "governe" is the sermal of the whole question. I don't think any moderule, fair minded samitarine would go so far as to de-mand a precoal pasternashon of the malk. We all

thow from practical expansions that we can drink our milk in our tea and coffee, and many of us take our bunchess on a glass of unsterlined milk without any question of the production of milk again and the danger

same of the more variou arms or our. Any pronounce of a massive brup to a dary in which large quantities of milk are being managelated, and show all, lerge in open version, etc., to which flow have access, would be a most powerful means of infecting the milk with all some of

661. What I per to you is that when the manuer has is wet or meast the only thing that our come from that is the small?—Yes. Is there any disease in the smell?-No; I don't

663. And, therefore, there is no danger to the milk 464. The danger torses in from the actual bacterili gone in 2—Yes. going in "-Yes.

462. From the heads or the elothes of persons who have come in contact with the manure?-Yes.

465. It would be possible to set a pitcher of milk or the marries heap, and, having socidents, no harteria would full into #9-No. Si Jeen Lesessens.—What about the flica? Air, California or series are precised person in gritting a trate or small, oil milk, but network of great expements tell me that milk in a very powerful absorber of had accelle. That seems to me a very doubtful propose ion, and one to which I would not be prepared to

Professor E. J. McWHESCY,-Nov. 30th, 1911.

assent without further aversingstice.

408. The question has a very important bearing or this subject. From the manure heap you have got ammonia and other gases. You don't consider that these do the milk any harm?—I don't know that they these do the milk any harm?—I don't lifew Roll light, and for a milk of the milk light, on what one may sall suchtise grounds, the presence of a large heap of decaying matter in clear proximity to milk a objectionable. That manuer heap is full of the most objectionable germs.

its proximity to the malk is undermable if it could be avoided.

469. Yes, but so many people have got it into their heads that the axed and basteria are one and the same heads that the until and hariers are one and the same thing 5—That is absurd, of course.

410. The edous from the manors beep is one thing and the bacteria another?-Yes, and an encount another?—Ies.

471. In the sommer, when the manure heap is dry,
thorn is a danger?—Yes. 472. But when it is wet the danger is mainly from it coming into contact with persons' obstess and hande?

—Tes. So long as manuse is thoroughly maint it does not give out any germs. Many of the heaps are dry at one time and wet at another. The premutity of a large

478, Lady Evenans.—Is it not a fact that milk will take the modi of flowers?—They say so. 474. The CHARRAN,-It also takes the edour of fruit? I have heard these things. I don't know what the

s are not understand the payerest way in which it is brought about. 475. Mr. O'Henry.—Butter has also that power of ab-sorbing?—I did not know that. 470. What I mean is, if you have botter in a larder, the botter being covered up with muslin, and your and convergence of the wide translation and year meant being in a safe of performed rine, and all file logic out, that the briter concing from the leafer will often tast of the reset. I suggest that power would be so less extent in milk 5-We knew from resent work that fliptide, which are the work that flycole, which are the notive bodies in fats, have a powerful effect as attracting to themselves or neutralising the action of various formers accretic by the body. It may result be a reterement of that

hint.

677. See Jone Lenchauser.—What is the needl from a marrier hoop due to 1.—It is due to the evolution of a marrier hoop due to 1.—It is due to the result of the activity of perturbative compares to the result of the activity of perturbative compares the perturbative compares of the perturbative compares the perturbative compares of the perturbative compare

same power in prescriptive cases as in provid cases. In your reconcessions you say that one of the difficulties is that the milk for analysis in sent too inte?—I said that was a reason wby I did not seeseed in scolating the typical built. The milk was sent four or free works after the occurrence which it was desirable that I should find a vidence of in the milk. 693. Your systems result rather support the view 693. Your systems result rather support the view of Bir Charles Canston that power should be given to stop the supply from a suspected dainy8—Yes, if there was systemiclogical enginess that the gold was

vehicle of the infertion.

90. The Chamman.—Did you make any america-590, The Chamman,—Did you make any ammina-tion with regard to an outbreak of typical that oc-curred in the Chotsef district?—I did.

curred in the Circular distracts.—I sha!

480. I behalf be glad if you gave us year experience
of that particular cases.—Before giving you any details
of the state of the state of the state of the state of
memoria as to my cases, and the state of the state
contract as to my cases for the Corporation or the Local
Deversances. Bears, but my capacity as a pirtule
Deversance. Prof. Marran.—I may say that I was associated with Dr. McWosney in the matter, and I would rather the

question was not asked,

ski. The Crancas,—Very well. I only put the question is varse of the fact that it was a very record courseau, and if vary information was to be slighted to be supported by the state of the same of the ice definable that it should be brought out. It could be definable that it should be brought out. It was I have no desire to propose the position of anyon. Without—It is a moster of probascial starpartie. 488. Lady Euranam...@www.foliats.com/puts/

I have no course to preputer the position of anyon.

Withstar—It is a mostler of professoral strugates.

433. Lady Evrasara.—Ser Cleulas Camerca said the
considered that separated milk from commence acted
as a powerful distributing agency of disease. Yo have
mide the same remark up your commensations—There
is no doubt shout if. There is epidemiological evidence for the last ten yours collected by the Lood.

onne no an institut pure connected by the LOM offerment Bourd. I shot superated milk seet out from the control of the pasteriled T—Xes. 36. Percusarios capit to be pasteriled T—Xes. MoWienred Phrecus—Ros see severy. Profuser MoWienred Phrecus—Ros see severy. Profuser land of digitations below the been shown in Rogland of digitations below the been shown in Rog-

395. Fred. Matrica.—You see aware, Professor McWenney, of the ease study have been absern in England of diphtheras being conveyed in the nulls. The point I would like to sak you is than-do you think that diphtherin as a timense per so of the cow?.—No. I have often formal baseful of the diphtheenid type in the size of the quer.

468. As regards refeatlle diverbons, to what is that suspending have not had time per to cannot for the very latest literature on the subject, but my impressor is that it in thus, not to any specufe bodili, such as those of typhesis or tubertic, but to the action of too many contrast bedding and former are more cases, puterfeature in others, on the particulated raise and the young ettail, which is fittled only to deal with mill.

600. The CHERTHAN With regard to the bouild of tutcersloss, it sufcretued from you than the celinosy outers of pastershales in not sufficient for their destruction?—I really don't know what you mean by the ordinary course of pastershales, because it appears to me that there are needy as many systems of pastershales as there are destructed in two with a well to

form delegión.

60. What temperature would be moussary or source
the description of the baciliti-L Laws ratered to the
most description of the baciliti-L Laws ratered to the
most cost in little such that may perhaps be of use to
the Commission. I son utility Black degrees now,
mouse cost in little such that may perhaps be of use to
the Commission. I son utility Black degrees now,
mouse to cost the cost of the degrees in the
cord of the short, 150 degrees is non mondes; 170 degrees
mirrias. Than oppires to mith that it players in a quantitation of
mirrias. Than oppires to mith that it burg productions
united. Than oppires to mith that it burg production
united. Than oppires to mith that it would not to be used.

coulty in Germany, 188 digrees Pahr, would need to keep up for half an hour in order to entere the complete featworkers of the hardle.

491. Mins McNean... That is 188 digrees after the entire bulk of the milk had arrived at the temperature?—Yes. The reason why there is no much divergence in the experimental besuits of different sutherities in that excess features and fresh formation largely completed.

sevim formation and frolk formation largely coreplands; insiders.

482. Prof. Marcan.—It is entire to pasteurine sepavided milk than whole milk?—Yee, brewing it does form a sours.

483. Mr. O'Serux.—Having it in a closed vessel like

480. Mr. O'Berna.—Having it in a closed vessel like a take, does that get and of the serior of freith—Certainly. The cooling, I frequently terms it is most un-octestically carried out. The lost milk is spread out as this layer over a cooliny, and is take to take up an accordance of colones consisting from neighboring materials and the constraints.

604. Where the patheterining plant for a large ball of milk in under so in creatures after would acknow be a manner being alcoult.—These is often a hasp of commercy menors, whach is most objectionstable. Separationally a support of the constable of the constable plant could deal with, and that is often on the posted may counter, and the plant of coding the rolls, as I have accounter, The plant of coding the rolls, as I have a commercy. The plant of coding the rolls, as I have a constable plant of the constable tray proper the contract about the plant of the contract the ray gare, because the respective plant of the contract the respective plant of the plant of the contract the respective plant of the plant of the respective plant of the plant of the respective plant of the plant of the plant of the respective plant of the plant of the respective plant of the plant of the plant of the respective plant of the plant of the plant of the respective plant of the plant of

one used objects this temperature question, which is one of the most difficult questions that a scientific mass on a politic on, more especially when his reads may be used to formal legislature perpension. I find that in the cone of milk polatures are sometimes that is finally as formally politically experience of the properties of the final political po

unin suttaintities to be adequate.

495. That is half the time for pusterning on a big cole?—Yes.

496. Mr. Communit.—Is that for tobereic?—Yes, said facilities for the afficial colline for the affice.

o feetiers for the others

400. The Commun.—When milk in postengesed in
small quantities it needs a sheeter time?—Yes.

400. You apparently believe that the toberete baselin
scoretimes come discrete from the cow in the production

99. Dal you demonstrate a vary two that this is not by meaning on the premise operations. We fig a must be more as by premise operations. We fig a must be more assume angles of this work that about. It is a discussion of the premise should be a support of the s

sipecting into genous-pips part of the schiment, you get quite a large percentage of ease of un-trices.

500. The CRUMENCS—Do you think the epitorey can commotive node by the eventury seagen is sufficient to the common of the common of the epiter percentage of visionary seagens, and I have not made the evcommensers of the older. He spraine would have a very high negative vokes of the did not find any nobles. It would be precomptere evidence that there was none.

201. ser 469N Libranians—150 meas runnia—sertrustigatid see in the manophishor—into shapeous determination of the manophishor—into shapeous debet policy health as the owe with the tabecustic solicy?— No. The cilianally and obroward principal solicy and the president source of designs to the paintic health.— In the cilianal popularity to well out off ill the own of that these though openuals to well out off ill the own of that these though openuals to well out of the disdemposes feetings as the whole distriptic jumensal—il, that we should be undersign again kentife on the report by sealing off what as undicatedly a source of the control of th

a become anomatic overceast assessor, and the special of the control of the state is very legislating of the casts around at legisl matching? I am not control of the casts amount of legisl matching? I am not control of the casts around the legisl matching? I am not control of the casts around the legislating of the state of the legislating of the legisl

one, the Challests—Lie you lithin it would be a subground to the public bealth if siming powers were the public bealth of the public bealth of siming powers the possess in an Dellain—If they used the powers they possess in an Dellain—If they could be accepted to correcting magnitude to subserved. It have provided to the subset of energy shows in Deshits in regard to the protection of the cilizerus.

100. We have bound from Sir Charles Camprom year.

100. We have bound from Sir Charles Camprom year.

the control of the co

tisuance of the supply from the district supposed to he infected. Do you think that that is rafe for a city like Dublin?—No. think it would be of the highest possible importance that the officials of the Public Health Department should have cotsaic by rail, entirely irrespeative of the appearance of the veneral, and I am of opinion that the system should include the scending of these samples of malk in large numbers to some banteriologist, who will be able no numbers to some bacteriologue, was was as assertain whether they are teleroular or not. If he sates that Pable, Health finds the sample is tuberouter the Public Authority ought to have the power to make a careful

destroyed, and compensation civen to the cover acdestroyed, and compensation given to me owner ac-cording to the special correspondence of the case. 207. Mr. Wilson.—You would make on destroying very climically toberoular now that was discovered? I would think so, 508. Sir Jons Literature.—As regards the sample you sould to the bacterologist, you would not be enti-

consider it of no value whatever.

599. Do you think that any person who has been warned that has con was tebercular, and who selfs the male, should be peneshed?—Yrs; he has committed a 510. Prof. Marray, Is it not a fact that a cow that is perfectly normal as to the udder may pass tohereis burdle into its milk?—There have been some inven-

511. It is not shown in the Beport of the Royal Com-mission on Tuberculous that subcutaneous morehises appearance of tobusics bacelli in the milk, so that it would be cather hand on the owner of eattle if he was charged with vending milk having tuberels becall fa

Wenney.--I take it that any oow whose milk Mi. without I have it that key you within the was found on examination to contain teherals hearth would spee facts be shrughte-ed?—Yes. 312. Frof. Mirraw.—I telle it that Professor MeWenny is of opinions they all eases of open tuber.

515. The question of compensation, of course, would stice afterwards?—Yes.
514. Lady Evmann.—Would the call get taken-colocis from the cow?—Yes, as a child would get it

516. Do you consider that a cow suffering from toby-roulosts is a source of danger to the yest of the herd?—I consider that the new affected with open herd?—I consider that the row affected with open taborete yielding the bentill through any of the natural certifies of the body is a source of danger to the homen thee and any of the convertible are with it. This designs in the open air is not so great, but if the cown were housed together it would be very dangerous to the other

SIG Mr. Gassetti... We want readly in get grid of their reads what is standing in our way in the fast that we daw not at the present moment, for want of a prepar public options, andwer Inners to test of a prepar public options, andwer Inners to test of a prepar public options, andwer Inners to test on the preparation of the public options and the public options are accessed to their that being done. The Department shows and experience to high mine methods by subjecting the system of applying the tobercoffs test. By this means we deploying the tobercoffs test, By the means we of applying the tobercoffs test. By the means we covered and those depth are more test. 516. Mr. Casspania,-We want really to out vid of occident and these that are unstand. Many of the animals that reset are sold, and the very flust sever in the country react. Our salvage to the farmers was as an Commy Frank. Dar advice to the farmers was to have those arrivals bested and expensivel, but questioned the control of the advice?—What was the gittafour? Was it should the most being 457. I don't unmost their it was demanded to the control of the control

517. I don't suppose there is any danger whatever from the use of meat from those healthy-locking cows?

No.

518. The Chainson—As to the question of toberole
bedfill in the cow, I say in the accord part of your eddensity you infrast that you advance you infrast that you
meets at the Albert Model Farm in edit of eigenmeets at the Albert Model Farm in edit in the regard to
the distry stock that is nationate then the regard to
you. The problem that I was accepted to only twee, but

whether the tuberculus test was a reliable one coses which merely reacted, but which appearably were not otherwise affected. The first part does not concern you except indirectly, has the results were an addi-519. You did not proceed to shughter the cowe?— We shughtered the whole of the atons, and I was pre-sent at the shoughtering, and I was able to securion in peathedly all cases that receiof this three receives color for. The foot were present in the medisalization algaest; secretizes in the branches gloods, and sometimes in the lung. In very few of the cases did we find any owderne of active tubercitions. I was able to

give the mast rigorous reaction. Thus, as required the presence of tubered benili in the milk of soch own, I tried first with the microscope to find them, but in wort. Then I tried mornishing given pigs. I applied with Third I tried incomining genera page, I approve to the Department of Agriculture for a gent for the purposes of experiment, and I obtained it. Guina page were precured, and I tried confelluging the milliplays were procured, and I tried oscibilinging the milk and incombining graines plays, but many get a positive results from reacting cown otherwise quite healthy. A much larger service of experiments we excited out by Professor Ostering with all the resources of the German Importal Hashib (effort, and be folled to make any one of subsections infection from much milk, but subsequent of tubercular infection from such ratis, but subsequent remarkers second to story that it is possible. Professor Mediam showed that the tudden of com-within were apparently well maght poss relocation is self-into the ratil. Some people lader are management when of howing bearful. I think it comes fairly within the terms of the Commission for me to state that bearin-

bedds have a much greater degree of virulence for other management than bernan booth, but burner bedth other manufacts that numer memory our numer accurate more dangerous for man.

260. Mr. O'Bests.—Are busens benilt to be found in cower.—Human bealth see not found in cower, so far sa

Prod. Marray,-They are, Professor McWHENET.—I was not awars of st.
523. Mr. O'BREEK.—If there is a person in charge of
cows that is in an advanced state of consemption, a

cows that it in an advanced state of consumption, a cow may get indested with the human teberch health? —Attempts to indest cown by human teberche health have generally here a fullure. I don't wish to say that burnes triberale bacille might not affect the milk after 522. Prof. Mrsvan,...Is it not a fact that human tubercle besits may infect sumals?...Yes, they may

523. And actifs !—I was not so sure above cattle.
524. What about the old researches of Churreau.
Did not be show that oxide might be infected?—I

dee'l now.

\$85. And the same thing also applies with regard to
Norsel's—I was not arms. The impraction I had was
Norsel's—I was not arms. The impraction I had was
have stored a large second of the options, which
have stored the same than the same than the
stored that the same than the
same than the same than the
same than the same than the
harms to either than the same than the
harms to eithe the same not able to do no.

I have normally the same to the same than the
harms to either than the same than the
harms to either than the same than the
harms to either the
harms the same than the
harms the same remain, is there my reason why man should be un-cluded?—I don't say that men should be excluded. I do not think that howns build are as virulant for human beings as human beach are, and I have that

copinion upon the results of part-receives communications. committees? I don't think you quite get my meaning. The past-scories examinations to which I refused The past-scotten examinations to which I bearen failed to discover ordence of obsolete lesions in the intestinal caral or its giants. At post-worters exa-minations on the buman subject it is the much thing, in fact, I may say it is quite usual, to get tuberculous modules in the imag, but it is very rare in my coperance to find clikehanding lexious of this manufaction

2003. Do your pest-mortess examinations apply to shifts or shifters—Christy to shifts. 200, 80 that it is highly prohibate those effected died before they get to soluth agri—It is quite possible. 200, And it is quite journal to the in the case of shifts the televolute bould may pear shrough to the

slands.

Professor E. J. McWersey,-Nov. 30th, 1911.

house?-That is soud, but I thank there is a difference of opinion on it, but it is quite possible. You are familiar, of operat, with you Pirenet's method of testing. Here you done may yourself?— Yes; I have done a great many. 532. What is the result of you Pirquet's methods?—

As applied to adults at juride a very large majority of reacting subjects.
233. More than 10 per cent.?—That was not so in

my experience. The number that reseted did not smouth to anything like 90 per cent. 594. You know that 90 per cent, has been given?-

835. Mr. Winses.—Ninety per cent. of cedinary branes beinge?—I don't think that would held in Ire-

06. 3M. Ped. Martan.—In Metchmkoff's recent paper as you approach the ago of forty, 90 per cent, of saledan yielded evidence of toberele?-I don't desire to ones attention deserved to be directed in that to the least lessure were generally to be found in the leng.

lessons were generally to be found in the lang.

537. It is gain possible that the chaclets lesions may have given the patient a certain amount of immunity?

—It is the absence of obsolute lesions in the alinear. \$88. In the Report of the Royal Commission on Tuberculosis they found that a considerable number of

nases affecting man was of howine origin?—Of a total of burnen tuberele bacilli only; 19 juided bovine tuberele

becill.

339. So I may take it that 35 per cent. of the cases
were all of howms origin. Don't you think that is
yather arrives?—I think so. That is one of the reasons ray, a non seek.

500, Durit you think that every province, should be made that fewer persons should take milk that se consumnated with bovize bushle?—I think it is very desirable. I would not like to drink any such milk my-

543. The Osammay .- I am glad that we have that on pression of opinion from you, because it will go for to ultur the feeling of slarm in the public mind, that although there might be breize instill in the tailmost protocing the milk, it is not necessarily as great a langer as heing exposed to tubercle healill generated in were discussing was as regards the precise infectivity of reacting cows which are not obviously affected.

542. Mr. Wilson,—Woold you say excessively mail?—I rather deprecate the use of terms like that

use. It is difficult to give a numerical execusion to 548. Would you say relatively small in comparise with these that occur in a tuberedou uniter. Tee.

544. Sir Joux Lawreson.—Would you say that if
this milk indexed a gainea pig that it would be onthe
for use I—Xee.

545, Prof. Marray.-The question of the infectivity 545. Prof. ARTEMA—ATE question of the innervery of perticular individuals—at our to the thompsometric of state perticular individuals—Yea. Milk that maybe fast to infect one of third maple infect another. A child that had a hereditary pre-disposition to the disease would possibly be infected somet than a child that was not seen to the profit of th

so pre-disposed to the disease.

5th. Onsequently you will agree with this possage of the Beport of the Commission on Tuberculosis.

"We are convinced that measures for eccuring this per-written of Importon of highrs tokarde hattill with

within or ingenior of ingris universe facts who milk world greatly reduce the number of cases of sh-deminal and certical gland tuberculosis in children. against this overses given interestion in omittee, and that such measures should include the embisors from the food ropely of milk of a recognisably taberceloue cow, prespective of the site of the disease, whether in the udder or in the paternal organs "?---! thilly consur with every word of that, and the only re-son I take up the ecceptant militer position is that I full repeat to what appears to me to be the pract-rability of the measures that you might recommond. I thought that if scentilists like myoff were to take up

tion in the matter it mucht make it more difficult, in view of the large number of these resoling cows that are at present in Iroland, to frame a

567, Mr. Wilson,—I gather that the extract road by Professor Mustam flow not suggest the exclusion of all be able to explain his own position. My posi-tion is thus it would be desirable that all such cover should be excluded from the milk supply. To but I think that the milk derived from herds in which zone of the stock react should have a higher commercial value than that from bards some members of which reacted to the tebercular test; and I would further exlonsino naytume, workhouses, and orphenages, and other large inetitu-tions, to give a preference to contractors who could august a reliable veterinary orthritists that their stock

548. Mr. Cantratte. Notwithstending the fact that at the Model Farm you did not find any tuberele in the milk?-But my methods were imperfect. 540. The CHARMAN.—That was done twenty aware know what progress the disease may make attention to that in the draft of my evidence. culosis is a riendily progressive disease, and if left to itself it bills a very large number of those it attacks. never have any guesantee in the case of dairy

550. Mr. Winson.-Xou spoke of it killing a large proportion of those whom it attocket?—t was appropriate. The disease in catile has a large percentage 551. What is the scientific explanation of the layer number of people attacked by tuberculous who get better? In it contained in the word immunity?—I don't like to apply the word "immunity." The disease don't life to apply the word "minimity." The disease is the outcome of a sirugile between the defensive mechanisms of the body and the invalue basilts. In of the invading health, only a small number being taken in, the greater steength of the defensive mechansame of the body succeeds in helifting a wall scound the ions of the body succeeds in hidding a was accumum hardle, and then the disease makes no further advance; but it has latent for a long time in some people, and if their constitution is impaired by other diseases it springs up.
552, 8g Jone Luxrasers, Would you conside

dynable or not to exclude all tobercular cattle from the dairy which supply milk?—I would regard at an a It might be possible to give legislative effect to that no a safe way by allowing a period of time to elagor before such an Art would come into force, during time everyone would be warned and got their

white distributed off.

558. Mr. O'Brunn,—Is it difficult to make this takerculn best?—No; it is very simple.

564. Can it be done by any Veterinsky Surgeon?— 555. Or medical practitioner?-It is the work of a

556, Mr. Campunt, Sir John Lenteigne raised the oos, Mr. Castronia,—or John Lennings: rinen me question of giving notice. How could any distryman in huying a new be sure that it had not tuberculosis?— All respectable disrymen nowadays ought to key their cows onlycot to the tuberculm test. If the darrenen ndood this practice, and undertake not ndops than practice, and undertake not to buy for shock purposes any cow that reacts to the teleproduc-test, I helieve in the course of a year or two they would be able to secure an alumburt supply. 567. In it at all likely that the dairymen will do

that?-I believe that the darrymen are so up-to-date and as intelligent and houset as others, has, and if it is shown to be to their advantage, and new, and if it is shown to be to their advantage, and accured for them a greater amount of custom, and if they know they were likely to be taken up by public they show they were story to be saired up by putting institutions, I think they would have the test. 338, för Jones Lossendous.—Howeve see hought sub-ject to the veterinary surgeon's certificate. Might not  500. Mr. CANTEREAL—It would be measurely to laws some comparison, would like "Med. I believe there are a greet merry things or whosh compation ought to be applied, and it not) not I sent it set if the trend of the stand of the

templs were made about twenty years ago to corry out this very bling?—I more that.

261. And it came to nothing?—I am serry to hear it.

560. Various asylams toted to buy there core on the telescolin test, and its my certain knowledge they have had in give it up.—Why have they to give it up?

633. Housest if you would not buy my own without

following the state of the stat

and get men into some other wereast, the I am we have go to the consistent they have gone further than we have go to the constitution. From the tests you have made you manging that perhaps 40 per cots, of our cown are inherenties?—I said it may pethaps have been from 30 to 40 per cents.

Set. I do not think 40 per cent, is too high,—I am glad to hear think, because I was in doubt whether I had not gone too far.

Set. The method which has been recommended by the many assemble were fee the relations of the

is, of course, to opply the teleproduce test to exposed the stock—Yes.

266, I won't to read for you that conclusions to above you have been a second of the stock of the second of the containt to Resided. This is a limited is said by the Department, collaphening the people as to tubercitoids being infections, and how its agreed may be great being infections, and how its agreed may be great to pervant the disease—the respondence of the second forms the unsecude, and the dismission of infection for each yellow the second of the second forms the unsecude, and the dismission of infection to cot yellow the coverage terms.—The flow day as to put not only the coverage terms.—It has the deep the

premised—the bedate estate. — The fine step as to put suspected, in question by themselves, that is, to include suspected, in question by themselves, that is, to include them. Unless they are of entroordinary value for breadters, the purpose of the step of the purpose of the construction of the step of the step of the purpose of the step of the step of the step of the step of 250. You give it as your opinion that in the case of opening the order of the step of the step of the opening the step of the ste

for the intellect—Vex. Three is not the eighbort descript the politic cating the mast of took ovex. to describe the politic cating the mast of took ovex. to the cating the cating the cating the cating the to certain plenty powers catelling in earlies English cuttin, such as Lerprod and Minchester, for insensor, tentis, such as Lerprod and Minchester, for insensor, which the political cutting particles the power will be possible to the particle of the power of the politic cutting the politic catellar politics and the SE. In your dark of cordance you say that in Mas. SE. In your dark of cordance you say that in Mas. SE. In your dark of cordance you say that in Mas. SE. In your dark of cordance you say that in Mas. SE. In your dark of cordance you say that in Mas. SE. In your dark of cordance you say that in Mas. SE. In your dark of cordance you say that in Mas. SE. In your dark of cordance you say that in Mas. SE. In your dark of cordance you say that in Mass. SE. In your dark of cordance you say that in Mass. SE. In your dark of cordance you say that you will not the cordance you will not the parties of the politic categories of the parties of

acted and Levergood the mills and host throu tilles by def source as a select, and that of these 460 hences def for the selection of the selection of the original production of the selection of the selection of the selection of the Medical Others of Realth of Monthaster for look year. 278. Have you say information as to what the Public Health Ambertian did in three conveniences—"Less graph the core accurately and of certain and appear to get the core accurately and of certain the production of the subjection less. In the case of one literate they found that the less than 350 per cool, of his center, or

Authority to assure that nulls from the bert would not be altered to be set of since the city? Was a special positive of the city? Was a special positive of the city? Was a special positive of the city of the c

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marked tuberculous is this sudder.

Wife, De you suggest that the power whole centain a Wife, De you suggest that the power whole the residence of the Public Health Authority in Dublimb—I do, most the Public Health Authority in Dublimb—I do, most the Confidence of the Public Health Authority in Dublim possessed by the Public Health Authority and Dublim, after the Confidence of the Public Health Authority in Dublim, 4704, In this first invision Furthermont would have be examined and powers oblished, and then it would be examined and powers oblished, and then it would be a marked and powers oblished, and then it would be a first the public tube of tube of tube of the public tube of tube

esercical by, the Fublic Health Anthority in Dallin, 1986. In his fast instance Parliament would have to 1986. In his fast instance Parliament would have be for public opinion to insist that the powers that were given should be out into question?—How you been soon to be public opinion to the public opinion of 1997. It was not perhaps disciply slated, but in pretice the billed prevails that it is extremely doubths out that the Public Realth Anthorities have besidough that the Public Realth Anthorities have besidough that the Public Realth Anthorities have besi-

scottle that the Public Health Audhorities have besitized to seek by establish the papers yresterday it was stated that in sowers to fine, Mr. South, the vittenes from the Local Government Board, said there was such power. I am under the impressee that under the Tuberoutlois Prevention Act they have the power, if they excelled it.

they exercise it.

The Contrastor of other entities present the The Contrastor of these entities Bill state it is been power entitled by the power entitled by the power entitled of them similar to those concerns on English these wave been releasing to, on all this classify indirectly that the Low Officer of the sound that the classification of the contrast the contrast of the contrast of the contrast of the Statement of the Sta

cased R.

338. Mr. O'Bunov.—Le that the power to go into the
country and examins the source of supply?—Ye o,
Where the Sourinay Authorition in the country have no
corrido out their derices the Public Health Authority in
Dublin cas small its laspector to the cow byte as kin-

country.

279. De Cutterco. This was one of the difficulties
279. De Cutterco. This was one of the difficulties
tender at the moment destrict in the dataset beau
tender at the moment destrict in the dataset beau
classified an expect of the the property of the control of the regularities imposed to the property of the control of the regularities and form to the regularity of the regularities and form to the regularity of the regu

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a high labels. a cony scenario e cont nois one scenario e september del proposition of the sendid know without september del proposition of the sendid know without september del proposition of the sendid know and both the sendid know and the sendid know and by which they would get power was by informing that by which they would get power was by informing that by the sendid know and the sendid know and Government Beach?—It do not him kley here. If you have a copy of the Thibreedickis Prevention Act, you have a copy of the Thibreedickis Prevention Act, you will see "list this phree graphy servers for the purpose."

Will see 'first they have ample powers to the purpose, (83. Mr. Wilson, "For this previse purpose"—Yes, undoubtedly, independent of the Local dovernment boord, (84. Mr. O'BRIES,—Sir Charles Compron said that he thought the Corporation had power, with the samplice of the Louis Government Board, to go late the country. They asked in the Onnihus Bill for direct power to wept to the Local Australy in the colory, and we if Thee is tuberculous milk and up, and we maint on you taking action about it "3—There is no use writing to Local Authorities. The officer of the complaining Authority is the man to carry out the inspection, and 585. Prof. Merrox.—Le the Report of the Veterinary Surgeon to the Corporation of Glasgow, 1997-8, it is stated that 21,002 own supplied milk to Glasgow in

1908 from bords attended to the counties of Ayr, Ben-fron, Dumharton, Stirling, and Launck, and an exa-mination showed that one in 531 had a defective udder, and that one in 1,240 was tuberralous. So far as my and that one in 1,240 was traceverage,—so for as my knowledge goes, the Doblin Corporation have the powers, and if thuy have not they could definitely to know and set for them. There was nothing whatever

Liverpool and manageouse, and I say turk so me caonse for such lastity in this important matter.

586. Prof. Marram.—The Medical Officer's Report for Ginagow showed that in past-scottems 40, or 2.4

high percentage. high percentage.

Mr. Okspenit.—It is one per cent. In Hamburg.

\$87. Mr. O'Berrs.—In the last passgraph of your draft ordiners you say, in refurence to the Repert of the Medical Officer of Livrepice, that the preparation of in the case of the country producer than in the case of the milk produced in the town. You say-" Of the the milk produced in the town. You say-" Of the latter the highest number over found tobercular was 2 per cent., whereas of the country samples the per-centure was four in 1910, and nine in 1904." Have

you any explanation for that?—Yes; the reason is per-Pap4 and under less strict supervision than in the town

385. It is not also as fact that in many forms when they notice that something as the marker with their cover they send them off to the coverty?—I have beard that of Manthester. They not them away from obser-\$60 It is not precessarily the bedness of the byrea but when the enimals bootons diseased they are get out into the country?—That is very possible.

590, Mr. Camperta. "There is another reason. The deiremen in Dehlin buy the pick of the core. The woost cows are left in the econtry Mr. O'Baxes .- And they buy older cows?- The town for the same idea of bow to do things.

501. This paragraph to which I have referred a culd lead one to suppose that the whole method of looking knows that milk coming in from the outside is not

593. Ser Jone Laurencer. That is the more reason 980. Set John Labrishoux—That is the more trause mby it should be sunchily improted?—You 506. Mr. Wilson—In the previous pages of your videous year say—'If we sessuate the incidence of odder infriedro to be one per each only, and if harder we assume both only 30 per each, of all the might cove in Preliand see betweendow, we find that '2 per each of all come herbertecker, we find that '2 per each of all come herbertecker, we find that '2 per each of an cown new tenercoar discose in the under, and are yielding dangerously infective milk. Estimating the total number of milch cows in Ireland at a million and a helf, we arrive at a grand total of samewhere about \$0.000 cows with tubermin discose of the sider.

and dangerous to the public health, scattered up and 764. From what I have seen in ray own part of the country, I think your evidence that 3,000, more or lies, are nextered throughout the country would be right?—Yes. The question of destroying these surmals in of course, a curstile of policy, but if you destroy. rants:—148. The question of destroying these aummais is, of course, a question of policy, but if you destroy these 3,000 you destroy the greater part of the infec-tion, and so he you would be doing a great public or viou; but I think you ought ultimately to get ind of the

others also 295. Sir Jenn Levyagene.-Would at not economy as the end to destroy these cowe?-Tes. 596. Prof. Marran.—What you would suggest would be the removal of all owen of open tubertubus?—Yes.

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Bir. The Chairman.—You sie Medical Officer of Health for Clouter, and also departurement Medical Officer of Health for the cottre North Dublin Bural District—Yes. Distinct—Yes.

698. Begarding the expervision of the defines in the Neeth Deblin. Distinct, is it not the precision that the Dairy Luspestee or the Vestrianzy Lespector may notice certain things which they believe are not no conformity with the regulations in Idd down under the MIX Shops and Deliric Order, and then report them to the Mixth of Officer of Health for the districts—to the Mixth of Officer of Health for the districts—

don't always report to the Medical Officer of the They are not supposed to do so. They report Health. They are not supposed to do so. They report to the District Council.

599. Prof. Merram.—Directly?—Yes.

600. The CHARMAN.—And do you get directions from the Council!—The Instructions come to me in a from the Council!—The Instructions come to me in a

restriktori rashed.

601. You have a Dairy Inspector in the North Dub-in District—Yee, and a Vederinary Seegeen as well.

602. Will you point out the difference between the duties of these two offeren?—The duties of the Vedernary Surgeon is to moport the cowe and the enritury outlifies of the cow byre, and he reports to the Coun-cil as to the result of his impection. The duty of the ordinary Dury Inspector seems to be confined to looking up persons who are not registered, or to corre-notions on people who do not comply with the regula-tions. The Delay Expectors have received no sugniture

certificate.

603. They have no qualifications?—No 933. They have no quantonsoner—no.
933a. So that they have not the smallest idea of what the hygienic condition of a dairy or a cowshed should

Dr. Jone O'Descente examined. 604. Has attention ever been paid by these Imp tore to the clothes or general condition of the mente harding the milk?—Preciselly noor.

600. And his dwises are restricted to the general inspection of the precessor or byres, the keeping of
swine in proximity to delice, and the distance of the
measure pit from the cow byre?—Yes. 600. Does be go to the began of the propte or the saft; shops?—They have practically no chains in the rural part. There might be one or two in Howsh; in pers. Ance might to one or two in Horselt; in places I do not know of any. They milk and the milk into churne, and it is brought into the Thay do not sell it as a rule in the country. The milk is not followed by the Officer of your

distrest to the place where it is exposed for sale in the city 2-No. Hy?—No.
WR. And no supervision exists so far as your Coun. cfl is concerned over the condition in which the milk is kept while it is being disposed of?—No. The supervigion so far as ray Council in concerned is very lax. In their attention called to the condition of the result in which the milk is placed?—I should say that there is hardly ever. I have never seen a report that the milk wessels or case were not perfect. They gene-ially report that everything is all right. 610. It is a very salisfactory way to report, but whether the stroumstances justify the report as another question?—I think we have 70 agreement, and about 90 of three are absolutely unsuitable for the keeping of

dairy cattle.

531. The construction is such that it is impossible to keep cattle in a healthy condition in them?-Yes. I to keep cattle in a healthy condition in Norm?—Yes. I should also say that we have not one single first-class consided in the whole area.

### 631. Miss McNana,-Wan any test applied?-The World feet was applied in serveral cases, but the result

Is there so Institution called the Albert Instifirst-class; it is called the Medic Institute.

613. Model, but not first-class?—Yes.

014. Yes have about 70 dalries?—Yes, and I should say 20 of them are not fit for the lowaring of

ray 20 of them are not fit for the seeping or cover, and the great majority of them are defective for the others are seed great majorary or usern are 0.01904er for the ordinary reasons—for examination, highly, &c. The principal difficulty is that the bytes are all belly reg-stricted. They make them too long, so that they op-stitute, and the oow fire down in the dut. 615, Prof. Merzam.—How many conversed there

be?-Ahout 1.000. Of course, the number varies from 516. Mr. O'Banes.—You mean that the cow has

617. That it is too long that way?-Yes. The conmede to fit the byre, and not the byre constructed 618. Sir Jone Lescreson,-Ariano la la your dis-

icios?-Yes.
Al9. You have seen the byres there?-They are not ender my control.

650. The Crannan.—You had an unfortunate demo of fever in your district a year or two ago?— We had there. One, of searlakins, in Glassevin, caused by milk; one in Gentserf, of typhend; and another of typheld (over, in Howth, directly traceable to milk.

923. In all three outbreaks?—Yes. 622. These are all recent congresses?—The Glasneven one was about two or three years ago. were practically fourteen faltial cases of scariation, and win, and the patients were all supplied by the one desiryman. His cithiren had been suffering from sore throats, and his cown were out in the country. I mmen milling the cows had a possible kind of sore threat, and I induced him to see to the heaviled. A

023. Was it secretaized that the people affected were applied from the one dury ?--Yes. That is the

first fearness cases.

424. The reason I sak the question is that I am arrives to know when is the mind of the Medical Officer Inspired with the notion that the discour Miscs from a common cause, and when does he take scien to searten what the cause m7-That all do pende on the notification. If the Medical Officer of Health gets four or five notifications of scarlating in one district be goes and inquires, and finds whether the

milk supply is the cross.

625. Does the Medical Officer in the district notitate incurres for his own information?—Yes. 626, And be reports to you as Medical Supernoun-dent of Health?—I get all the neutrostors of disease

687. And these induse you to undertake investiga-tions to trace the source of the discour?—Yes. (68. What period clapses between the manifontion of and five to-morrow, so that three days risparel-so for and two to finerwe, so some surve mays because on so my recollection goes, before we got on the teach of the milk. In the Chorlerf outbreak we were very un-fortunate. There were 142 cases of typhood, and 130 fortunate. There were pex cases of typecon, som according them had received the mills from a particular dairy. There were 83 houses attacked, and 19 were supplied with milk from a particular dairy.

029. There were only three locates out of 62 with in munity from typicial forest-May. There were 82 houses sateched: 'Po of those were supplied with the mile from a perticular daisy. The other three houses were cuty pertially supplied by that skery. In that epewer cuty pertially supplied by that skery. In that epedenie, so far as the milk supply was conserned, steps were taken to prerent the milk being do buted owing to a peralisr flaw in the Act. milk being dister-

630, I am coming up to that. We had evidence yes-terisy from Sir Cinties Cameron on the point?--We teelsy from Sir Crisches Cameron on the pomyr—we proved that an every instance the milk supplied came from this particular dury. It was held that we could not close it because we could not catalable the fact that there was discuss amongst the darpunsar's family that there was marcare amongs are uniformer a many or bis employees, though I had a mapieton that one of the men was suffering from mild typhoid. He was a

the Widal test was never known, except that the reliber were shanged on to other work.

602 The Churman,—Was that four rather at the stance of the owner of the dairy than of the Public Health Authorities?-Perely at the instance of the 655. Is it a fact that the Public Health Authorities lind not the power to have the Widal test applied for

own information?-I do not think they had 634. Do you thank at dearmble that the Health Authority should have that power?—I do. 686. As a precautionary measure, at least tions?-Yes. He changed his milkers and his dairy

poster.

504. Sir Jenn Liberarosa.—Did he change them all?

—Yes. At the time the test was applied public opinione was soting on the distrymon, becomes powers refering to take his nills.

637. The Chancaex.—That was an instance in which public opinion had a stimulating effect towards re-

638, At all ownes, it was considered unauthifactory by the Pablic Health Authorities that they had not power to prevent the sale of milk from this particular deary order the very suppriors enverontances which

699. Although the suspecies almost amounted to e certainty, they were adviced that they had got the power to prevent the sele of the milk?—Yes. Emerly the same thing occurred in the Howth spideme, There were about fifteen or sixteen cases, so far as I can re-member. They were scattered all over Hawth. A lat them were compers-out there in the summer, and it we found that they had all the same milt supply. The milk was surposed to be sterilized milk. The enidensity was accounted for in this way o man whose fourty had typhost in Conterf took a house or the Will of Howth, and developed typhood homself. MUI of Howth, and developed typicoid homself. The dejects from this patient was theown into a seet of sub-pit. There was a sort of drain from this sub-pit running into a stream which can by the premises of a dairyman who weshed his tens in the atream. That was 640. That is excelly the case that was referred to by Sir Charles Cameron yesterday, where he thought it was commently desirable that the Public Health Authorities should have the same power over suspensed

641. Do you subscribe to that?--Certain! 642. And do you think it eminently desirable that such power should be conferred on the Sazutary Authority\*—I do, delt Mr. Wanson.—I was wondering whether Dr. O'Denogline weekl give us any idea whether the people in whose hards the power would be phased would use it. They do not seen to use the powers they have got "The resignity of the people with him to be present and control that the power is put them. Dairy Begulathers in Ireland into operation are cor-

644. Arising out of that, would you see my senses difficulty in the Monocipalities getting power to control the milk from the senses of origin?—I think they should have that power. My side in that the only way so deal with some of the desires as no necrose three men-ting pulls belonges. It has acted very well in the case of alcohol, why not in the case of milk.

645. Mr. CHERRILL-FOR would put the cove-loppers directly under the Sectiony Auditorities in the city/S—No; I would increase them only. The people who would have the authority to illocate would, in my

study insec the automity to moreove vosus, as my opinion, be the Department of Agriculture, or, if you will, the County Cownell. The point shout the Breeze is that you can go and oppuse the man's Benco if he dress not loop his duity in a proper confillor. 606. Prof. Mirrays.—It would also causes that he should have fit and proper quorters for his costs when he supfied for his hornes?—He should have his pre-

mises in fit and proper condition before he gets 647. The Chansen.—Do you know if the housing system persula in Manchester and those other cities that have special powers under their own look fools. do not think so. In America, I think, they have, 688. Miss McNent...-The following appears in the Dr. O'Dosponiu.-November 30th, 1911. report of a Milk Commission of Philadelphia:"Ro dairy farm, oreamery, dairy product slop, milk
dealer, pestentising plant, milk slop, restaurant, dealer, pasterning plant, milk shop, restorent, diangroom, esting saloon, hatel, her, drug sieres, ten remm saloon, or ice erest manufactory, or by any calair emergic engaged in the hustiness of salling milk or milk products, shall be permitted to sell or offer in of mik protions, and re premiers to but a seeming, sale nulk, recent, butternilk, ripened milk, kecennic, kelyn, evoperated confound milk, avectorial condensed milk, skummed milk, its oream, or any other milk or ervern product, without a license; and believe such license is usued a sanctury inspection of the premises shall be made, and a detailed record of the same, plicant, shell be filled in the driveness of milk impacsion. Each licence award for the sale of milk, creem or reflk products, must distinctly speculy the class or closers of milk to be sold under such larences, and no vendor of milk shall be permitted to sell or offer for value on make firm to permuted to sell or offer for vale any other close of milk than that covered by his licence. No licence or permit shall ever be re-associ to applicants whose previous roord shows that such applicant's premises or shop have been reported as un-

stability by an inspective on towe enhanced obstacled court has been reported on two different occasions for the and of skuldermide crafts or cream. The contract of the said of skuldermide crafts or cream. The contract of the court of the

this new several content of the several conte

go down to the nourse of infertion and happed?—
I think under the Tubercolous Prevention Act
have power, provided they have an order from
magnitude.

831. Mr. O'Bruns.—You never did no?—No.

632. Has supera ever Jone 13.—No. 633. Days assess that the Melhin Statisti at all 1—No. 633. Days assess that the Debbin Statisti at all 17—No. 624. You have solding to do with tesins or milk-sensing up from the country!—No. The Public House of the station, and as in what could have the supera to the station, and as in what could have the supera to the state supera the state was up 29—No. The Public Househ Department of the state have proved to a tester stating. "I should like state of the smill." The view filter state of the smill control of the state of the smill.

corriet for Dablin." The vertice riskes that one of two of the case containing milk in the tusis were convent of the case containing milk in the tusis were convent of which as of mediantock, and that there was a regular creat of this on the office. We purpose in a that make the containing t

I make, "O'Finne,"—Here the Imprehen ruler cony of delate from the regulation as is what they deal. I
go and imposed. Here they any stochastic as to what they
and in the delay about the "Del bury."
I was a stochastic and the stochastic as to what
operations and look for the same thingst—They have
you delate level and regulation, but has rydom as
entire and look for the same thingst—They have
entire the stochastic and regulation that has rydom as
entire the stochastic and the stochastic and the stochastic and
the delatest Commission, stool these departs of whom
and unforces them.

officer — is a form Lexensum.—Are you empaged in practice, doctor?—Yes.

633. And you see a great many children of the poor?

—Yes.

66. Do you think they got a sufficient quantity of mich.—Honly, 666. They are not people) may the dt—No. They got a prod set of distinct mile. 666. In this is consequence of the had only or the speciety of the people.—I which a bot of it is due to the provedy of the people.—I which a bot of it is due to the speciety of the people.—I was not pose of difficulty in securing a supply some under your nature?—Ever just strately in Howe. The supply is very decrea deam there.

deces, Mr. O'Bruty.—I suppose Howth would be supplied so Dollsh is 1—Xest by declined milk, bits also lay local delignment.

1048, The Character.—The surply local needs—Xes.

1058, The Surply.—Xest constants of milk.

1071, It is it may be good addition?—Yes in Clouder.

1072. Here you care timed any disease to liv.—No.

Office What do you time of it as a dart!—It is very the common it is especially all to which sugge is stated.

"We Mr. O'Brans.—It is babbled as a separated milk?—That has oddy as separated milk?—That has oddy been dean secondly.

"No. It was securing whother it was governing to core!—It cover as who label on it.

"Direct.—You will be the control of the cover was the label on it.

"The Christman.—It share any good's milk in the prince."—You will make does your Visionty to.

"Office The Christman.—What does your Visionty to. specific on with maguel to the imposite of distinctions."

spector do with regard to the impostion of district— He impacts the calife.

577. How often?—Frequently. He is supposed to report on that quarterly. He is constantly imposting them.

678. From your present knowledge do you know that he has directed the othersion of the local Sautary that he has directed the othersion of the local Sautary

that he has directed the attention of the food Scanlary Authority to the condition of any single own districts which the condition of any single own districts since he has been appointed?—He has been of the What oction was attent by the Lond Authority?—They irrepeatly monored owns with tithercoals uniform. They are disappeared owns with tithercoals uniform. They are disappeared was a wifety there are

Some and they antique transport they supplement to the promotion by a relief they go it of them were the content of the conten

and also led total door.—It is Velerinary Impressed fashes eathly affirms from the benedictions of the claffer what does not door.—It reports to the Statistry Authority 650, What is doors.—They ere copyrand to be almosthared. But the owner secretaries salls throuled the control of the control of the control of the supplier of the control of the control of the control of the sufficient from the control of the control of the control of the sufficient from the control of the control of the control of the sufficient from the control of the control of the control of the observation of the control of the control of the control of the control of the observation of the control of the control of the control of the observation of the control of the control of the control of the observation of the control of the c

Mr. Wilson.—The first man who sees this oow with a hed side it she compressional man.

The GRIBERS.—Bose the Dairy Inspector make a The GRIBERS.—Bose the Dairy Inspector make as though a window in the desired with the simply writes a report to disc Council. The report is generally "expertisant rain."

600. Nr. O'EMITS.—How roomy Inspectors have writed in the desired with the de

you?—One Dury Improtors end one Vettingary Surgreen.

100. How many strinais are there?—1,000 cown.

101. But stringed unexue you wantly decreas?—About 101, but they see over a bag area.

102. Do you think that your two Improtace can get about these of during care a year?—I think so.

Dr. O'Doscourus.—November 20th, 1911. 708, And he is generally related to half of them. In

660. And see the news?—Ch, yes,
694. The Craurous,—Is in possible that they could
69 so. As a rule, they are paid extensely readir
shirted?—Tee.
Little more than nominal soluties, which mores little
more than nominal conjection.
695. Mr. OBRIES.—Con want contralled synthesity?

more than acceived conjection.

695. Mr. O'BRIDS.—You want contributed synthesity 9.

-You.

606. Frot. Marraw.—And tosee independence?—You.

607. Mr. CAUGELL.—Is it the case that in your most of district the numbers of the Council are mostly uson or district the numbers of the Council are mostly

control of districts the members of the Council are meetly delivered. — Yes.

600. Lady Francisco.—If your Veterinary Impacts fasts a cow with a tubercolar sider he reports, but he or the Local Authority shows not fallow it up, and the dairyman and dispose of the cow?—Yes.

distryant on dispose of the covF-Tee.

(30), Puch METERNA—As soon as the Veterinary Sergeon floats a subsection cow he should be able to place on emberge on the Water a Veterinary Sergeon distance of the sadder has the subsection of the sadder has the sadder ha

200, Pred. Merrana.—That should be a matter of continue as characteristics. You would baine that were no received the state of the continue to the continue to

off you so me mean a regarded about he made.

102. Ledy Brunshn.—The Vetermany Surgect reports to the lead authority?—Yes. There is a definite regulation about it.

103. Mine McRinzh.—If it were one of the obligations of the officer's appointment that he should make with a treater to you in world remove my personal de-

104. Lady Everano,—Who do you suggest would be the best person to report to—the Medical Officer of Health or the Council?—The Medical Officer of Health, The Officer ignores you?—I would not say that, 746. The Officer ignores you?—I would not say that, 746. The officer ignores you?—I would not say that,

We. The Officer ignores yeofs—I would not say that, Tacte is an expelation compelling him to report to me at all.
706. Mr. O'Barnes.—Is not the Metheal Officer of Health elected by the District Councilly—Yes.
707. And the District Council or with the distry-rees and shoot-courses?—Yes.

All the control of th

Comment, Someway, purposely, in the abstract there might formed because, probably, in the abstract there might formed because the comment of the comment of the Till. Miss. MONERA—Could be that cache he golde sumply of the report were as a matter of effice routine out to the varyous Medical Officers? Frot. Micross.—It has been out that the shartfor acro so small that the Inspector could not be saled to act as a clerk.

as a derix. Mas McNIII.—The doctors could be notified inserval his circle of the Contral Ambierty.—The say, the could be a McNIII.—The say that the could be a McNIII.—The say that the could be a McNIII.—The whole while time would be eccepted in the work.

This, Mr. GAVIERE—The whom would be report?—The Mr. GAVIERE—The Work would be report?—The Contrast.—The Work would be redowned with fourty power to oder presentations. But under whom would be set?—These the Country Courted when would be set?—These the Country Courted when would be set?—These the Country Courted when would be set?—These the Seytem on Gestal Political Massimum.

Str Joney Levy Mark.—And is it not efficient?

Prof. Merrow.—Yes.
The Crumust.—You went in Ireland upon sufficient from local influences and capable of being moved only by the interests of pathle health. Appearedly that would seem to be an absolute measuity if effects is to be arrays in the service of the content of the

that women science or on a second consumity it cames for Mrs. Officers of the communications model, or Mrs. Officers of the described by conceptual of the conference of the c

one some extramed authority should have the proincept of the property of the property of the proton that the property of the property of the probable one-old-should be consolidated, became of the conwealth is prevent a man saling milk became his childword be prevent a man saling milk became his children have anxioten you have to go under one fact, and under models if you are dealing with a question of , mandatage.

The Communication they adjourned until the following merang,

# FOURTH DAY.—FRIDAY, is DECEMBER, 1911.

The Commissioners met at No. 5, Upper Castle Yard, Dublin.

Present—P. J. O'Neila, Esq. (Chairman); Lady Eyerand; Sir John Lentaiune, ergell, Alec. Wilson, Esq.; J. R. Camprell, Esq. r.gc.; Professor A. E. Mettam, r.gc., erg.c.y.; Dermod O'Brien, Esq.; George A. Mooruhan, Esq. f.e.gel; Mas Maroaret McNella.

S. W. Strange, Esq., Secretary.

12h. The CHARRES,—D., O'Decagline, who was a samed yorkerley, has sen a stephenon tressage to the Secretary that there is one priori the cantide in the cyclotice which he would has to have on the necker. The forestrate,—De. O'Decagline the present of the contrast which is the contrast which is the contrast which to have send to predently the during the names season over one sent term Dublin, man the country around Dublin, and which they are sent to the probability of the country around Dublin, and which they are described in the contrast of the con

The CHRISTON—I are quite evice of the fact that you from the ent of Debbin go to to gross in the Neeth Debbin distrect in the summor morths, and these strangers of the continue of the summor of the summor of the summor of the summor of a primitive christone, because they do not const; a primitive christone, because they do not const; a summor of the summor of the

716. The CHARRAN,-You are Inspector of Dalries in 717. And you also leeture on Hydrene in the University of Dobins?—Yes, I also have been engaged in giving lectures on Voterinary Hygiene by the Department of Agriculture throughout the enter of Lesland.

The And you, naturally, travelling over the externcountry as you have done, became conversant with the

719. And on making injuries you have assortained, at all centre to far in you could gather from exactl our versations with people resident to these districts, the

and 1921 of the milk that was obtained at that 730. Mr. O Same, In callang?-Yes,

788. Mr. O Burne,—In gilane?—Yee.
721. Hiere you got the manner of cores?—No. year
721. Hiere you got the property of the pro galls. Total for 1610, 216,924 galls., tons on 122,276 galls., which gives an increase in six mouths of 46,802 galls.

That is a very substantial in-

farmers in that district. 723. Prof. Merran.—Will you tell us approximately in district?—It is in County Tyrone,

going to the creamery, not to the children? think that a mean mother would possibly rob her chil scena to me that you might as well likene the proprioto el a basca fastery bensus pecció no larger cuer their ornu poré, which they cell at ét, a lb., saib bene-berego basca si vil. a lb. "Xoo encot them the basca basers por data. I know a coso el n seman se l'impo-basers por data. I know a coso el n seman se l'impo-bre thriesen sich larger enuns and berech twitter et her thriesen sich larger enuns and berech twitter of her thriesen sich larger enuns absorber for ea egg, and she said she code and in the larger. egg, and she said she could sell it for 1d.

285. The Charman,—Bir John Leninges asked the spectron whether the fact of this creaman industriabring supported with so much diligence in the district tering supportes with no makes diagence in see quarter is the means of ourtailing the household supply of milk.

I suppose it would be possible to ascertam thirty by visiting the homes of the people?—I have done that and in a great many places people never give their children milk or periadge or wholesome food, but that is really due to their agreemor. They consume abop bread and sea which is always stewing.

126. Mr. CARPERLE, What is the price of the mail?

-41d, a gallon in summer and 51d, a railon in winter I am only I am only giving you the returns of the evotral humsels, in which \$30,000 was the turn-over in the leat year and

727. Would the creameny sell milk to people who came to them for 3d, a gallent—I so not know. My come to them for 2d, a gallen?—I do not know. My point as, that where you have good menagement, and where fermone do their huniress well, and that the errannery does the bazemen well, you can have as m, errors of the milk supply of the abstract. When I speak of distinctury or learness I speak of the general essummity. The overcody I spoke of the general essummitty. 718. Prof. METTAM .- How does that proc compare with precupries in other parts of the country?-Ahous

an average.

Mr. O'Berrs.—4[d. a gallon throughout Ireland, or 48. Volta - De passe weedgelds account, or 41d, would be about the average. 729. The Chammax—Does this councery work for the entire year?—Yes. They do not separate milk on Bendays in the North of Ireland. 780. Miss McNarra,-Io there a likelihood that the increase you have noted means, not so much an inso. It is quite possible, but it is not my experience.

731. Dr. Monesman,....Have you say idea of the area. of the district that the groupery draws its south -About three miles. 702. The Charman, That is in a district in which you believe no shartage exists?—No, because the management is so good.

738. Does it not seem rather a pity that such as

738. Does at not seem ratter a pily was some un-countrial food as milk undoubtedly is for children, and growing boys and girts, is withheld from them, when it is sold at such a moderate princ?—I think it for shoo-

lately indispensable to supply a child with milk, 704. Mr. Canresza. -- Your ovidence in that you do not know whether it is withheld on not -- You. 735, Lady Evenson.-Do they sell milk?-I do

not know,
736. The Changers, ... Have you led my opportunity of Inspecting the milk stock in that particular district?

have.

737. And you also had an opportunity of occing under hat conditions they are kept?—I had.

You there that there what conditions they are http://losm. 758. Speaking generally, do you think theying?-I conditions are subsolutions or otherwise?-I think, com-

pored with other parts of Ireland, they are good. I have some yet been in any pine that was not expected of some majoresarch, but the street of estable up there on the whole is good also, because you find a great on the whole is good also, because you find a great chariest including on to Cookeston. There is note otherist including on to Cookeston. "29. Bo you thank that the streeting is paid to the outside of these could be seen as when the pasteres were following." I would be a substant when the pasteres were following that in other definites, "14.10. They array on a mixed spicing of Ireland."

741. In a district of that hand it is always possible to 742. You helive a certain amount of things is essential for the prosecution of winter dailying?—Yes, and above all things to the health of the atomats. You 724. Sir Jone Liberarous. Is all the welk of the cannot have wanter delrying without labour. The tal-lage provides man with work and also winter feeding for cattle, and it also beginned discase from the stock Just for three mouths, some years ago, in that district, the amount that was received work 745. LEG your observation in this same of the milk re-to determine whether those engaged in the milk re-dustry, in drawing the milk from the sows and in the dustry, in desceng the milk from the cores and in the treasmession of the milk to the datries, were density in their balaint.—On this whele, yes. They are milke a superior class of people in potent of eleminates and matters of that kind. For instance, every man who attends my leatures were a collar and the. Set. We see not much concerned with their holiday

country are not

immed to that particular distincts—No.
746. You have textualled throughpost other parts of
lpstends—Lea. I wish to withheld the mame of the
county in the case I am going to mention.
747. Dr. Moorman,—The includity of those particular people street you as being compliances in the dis-triet in Co. Tyrene?—Xu. In one of the most fertile counties in Iroland, shiedly devoted to pasturage, the confuce in Iranam, amony overted to passurage, the people depend upon the band to provide them with title. During the sommer they have their costs very clean milead by feeals labour imported for the par-pose, and during the winter mantles providesly nothing pose, and doing the winter member provincing towards in done. The animals are kept in a diagnostial man-ner during the winter. The conditions under which the cows are kept beggar description. You have a new the core size large bugger description. You have a com-tacled constituting forty core, a land force, and wells, a study constitution of the contract of the core of the centre, ambited to Be in position, the description of corrupted from in which gas are keep's the drawing of the core of the core of the core of the core of the corrupted from in which gas are keep's the drawing of the core of the core of the core of the core of the corrupted from in which gas are keep's the drawing authority of the duty. I do not set yield to also it sprond pt feeland, but I mornion it to show that it sprond pt feeland, but I mornion it to show that the core of the core of the core of the core of the well also a sublidication of the core of the core of the well also a sublidication of the core of the core

you will have a satisfactory milk supply from

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748, Mr. O'Bann,-Hae not your observation been

that the near the land the laster the people and the waste the farming?—Yes. 740. Dr. Mccountan,—Industry was not ecospicuous in that last place you mentioned?-No 750. Mrss McNeno,-Can you tell to anything of the kind?—In that particular district I cannot say. own district the Local Authorities are falling into this very well. If you take the two rural districts of the Bathdown Union, any suggestions I have mode to them for the last fifteen years have always been carned out

have asspected for them for fifteen years, and they sligged me to draw up the roles and gave me any ing out the rules.

751, The Chusmax.—You are familiar with the Dames and Milk Shops Order?—Yes, 702. In it your opinion that if that Order was ex-

in regard to that Order, but much a state of things should be impossible.
728. If the Local Authority were disclosinging their duties, would in act be impossible for those cows to reason to that condition for any length of three, provided an Inspector was appointed to lock after the dairy cuttle of the district? Is it wo devision that the conditions you describe would come under the provisions of the Object—II were an Imposite I would close the

dany. 734. Was that a darry that coppled a creamory?—I carnot masner that question.

755, It was in a district in which creamerses exceted?

-There are many creameries throughout the whole of the county I speak of.
756. Dr. Mooseman.—There is no winter production ar that 757. The castle are looked up in the winter?-No. In the winter they have a system of turning them loose into little peddocks. They may in the springtime, just

hefore ealying, be brought in.

738. The Chammax.—It it not resconsible to assume
that my in-call cover being lend in that condition could not readuce healthy offspring?-I outle agre 739. And don't you believe that meny of the male due by which contine nave need too wholesowe are in a large way due to the conditions in which they are housed during the winter time, and the way calves are large after they are hora?—Undoubtedly. 780. Another Inhit! I have seen in some districts is

760. Another latti I have seen in some districts is that they have the cattle into some mid-lattic on the coldest winter day, and they stond up to their linear and heels in fitth, with sleet blowing over them, and the satinals are chilled to the bene. Would not such treatment as this livre an populous effect on the ani-mais and impair their vitality?—Yes, 761. And must operate against the offspring?—Yea.
762. Mr. O'Bezze,—Is not standing outside doors

healthier than being in the bouses you describe?—Yes, from one point of view. 768, The CHARGES,-Are there not complaints aris-

754. Would not the conditions to which you have referred have an injurious effect from that point of

765. We may take it from your observation, which is widespread and general, that there is need for very 766. And that many of the losses from which the owners of such stock unfortunately suffer periodically are indirectly, of not directly, insemble to want of ears and intelligent management?—I would not say the want of care, because a men would not like to secrifice

his property. It is ignorance, Tot. Ledy Evenant.—Do you find that the farmers are not quite aware of the extremely infectious disease shortion by-Thoy do now.

sheetion in T—nury no new. Yet Min that where Yet Min Co Baurs — Do you not think that where the former knows about it not lakes pressuring, his heads are very ignormal and generally very lawy, and that unless a farmer is shie to go round his stock introduced the state of the control of the state of the control of the c

lendom up by confugious abortion through the nuglest of the man, and a little nuglest as a very serious thing in this discusse. You may imagine you have it con-quered, and it may be re-introduced. '90. In altitude in within the cremeries are numerous there is no chance of the milk being infected there is want of care on the part of the people desling

tion is between the drawing from the oow and handing into the creamery.

770, As a rule, the milk is hardly brought into any
her house except the oresmery?—No. There might TW, As a rule, the milk is hardly brought into any other house except the overamery2—No. These might be an improvement in some cases in the once of the vessels. I believe the Department of Agricultury does some importion, and I believe they have a system of

solts attributes, and a reference may have a system of colling persons whethere unpersonally to the fast that their owns are not doon, but in some proprisonry recommens in the county that I have already referred to without attaing it, the conteger happened to be an old subsolicities of mine, and brought me one seems of this besentiar. There I found soys of all ittude State, are not in milk—a fittle th of they and other hilling, and my on the milk—a fittle th of they and other hilling. and there was a good endament at the holton too. If have never seen the case themed, but I hope they are. In the County Roscommon they have rather an anyulus way of bringing their produce to the greameries. They have small holdings, and the milk copply is amail. They have panniers, on one side of which is the shum 771. That is not necessarily unhygicale?—No.
771. The Charman,—Must it not mean an excitled to

loss to the country of the colver are secrificed for want of intelligent management rest is combone.

173, And does it not also hardless the dairy industry considerably?—Enormously. There is one riflings I remember going into, and I was told by one of the clergymen that a man in that village made his living part of the year by skinning the ceives that died from white secur. The skins were correct out in earlicada. white secon. The close were carried out in carbloads. I am inclined to believe that she less among farmers so now less its way. The county of Lemersek and part of Clare and part of Cork and Thyperary are the white

774. Mr. O'Brins, Talking about the keeping of operative, most or mose reconseries, at least the larger coses, work only a few days in the week during the winter months?—Yes, 735. Have you found whether there

Wil. Have you round whother there was any pro-vision made for the keeping of the milk when sepa-rating was not going on, and in what condition it is kept in the darron or houses until the openments are supersings—I out only speak of the creamery where they take it in, and they have uplanded promision for storage. That is the only out ever inquired about. 770, Going decough the farms as you have, generally, have you ever been strated by the fact that there is no early of your profition for the keeping of the mult? under a bad.

771. No cover on them?—There was a cloth.

728. A dirty deth probably. World you say that a fair number of the farmers have some such provides?---They are improving in that respect, and a good per-centage have, but I would not say the mejority. The Mr. Conventus.—Why did the farmer you refer to keep the milk under the bed?—It was the wife. 280. Was there my creamery to send it to?—There was no creamony in that district.

781. Have the treameries throughout the country the cures or improving the conditions under which milk is impainted in manufacture?—I should difficultly think they do have their effect. You have better methods. Trill, What you have described has consider where the PRI, Mr. Witness,—We had evidence that the PRI, Mr. Witness,—We had evidence that the return of the separated milk from the overacross has been the course of the dissemination of discuss.—I do not believe it. offeet of improving the conditions under which milk i

not believe is.

T86. What would your opinion be as to the return of the asparated mile?—I think the only disease that

would result from it is that if the people have to depend on it as feeding stuff, the only downer, if you can call it such, is stanyalize. Supersted milk is an implicant red for a young said.
The Chainean,—The question was raised that it was the mesors by which discuss mucht be communiested to the human subject,

Professor METELE.—There was an external of diphi-theria and B was threed to the separated milk that was distributed from the dairy. Mr. Walsan waste to know if you have come series saything of that kind?—No. Dphilabria, of course, carso not from the actuals but from the humon bengs. My optices is thus, if the escentry is well meaningly, and the milk taken in is in a clean condition and in clean vessels, no disease will

the reparated malk might predispose to disease if do 786. You do not look on the perticular aximal dis-cores that you have mentioned in your summary of evidenoes, viz., contagious abortien in catale, mammary discours, tuberculous, white scour in calves with pres-mants, heart will, call distriburing red water, blackbor.

ele,, se due to the greatery system and the voturn of the reperated milk!-No. 785. The CRAMMAN,-Do you think that due driv gence is exercised in the management of those errors cries to course elembiness in the milk supply and in all the operations it is subject to?—There are good and had. I think that one of the most reconstry things

with regard to such institutions is efficient importion.

788. That leads to another quasition. Do you regard 100. This lists to stother grasteen. Do you regard the improving as all present carried out as efficient; is it so good as it should be 9—I have not had sufficient opportunities of judging. I have not Improving an ibe road and know they work very hard and have a lot

to 40.

THO. The question is whether they are not over-worked?—I have not heard then complain.

THO. From your observation of the creaments, have worked?—I have not neare them compound. 700. From your cheevestion of the creamonts, have you discovered a fair number of them in which you thought the conditions were less efficient than they should be?—I tilink, of all these I have visited, well over hinely per cent. wore very pleasing.

791. Dr. Mccomman. Do you mean of erescueries?

Yes. Sir Jenn Lennares — You are of opinion that the presence of the creaments in an advantage from the peak of view of the milk supply?—Yes, and if I thought it destroyed the home left I would not the it. On the whole, I would be sorry to say anything against

The CHARMAN,....It is very difficult to deal with the other question as to whether the owner of a dairy would deprive his family of this necessary food and supply then with something less notetions.

No. Prof. METER.—Where do the labourers their milk from?—They have either an allowance for

mile or the gross for a cow m some districts, 794. The Custaman,—Of course the custom varies very much in different peris of the country?—Yes, TRL Prof. Mirran.—Are you sware of any labourers TOO. STRIME.—ARE 700 PAGE OF MILE AND AREA TO STRIME AND A STRIME AND A STRIPE OF A STRIPE 705. Ledy Evenant.—Do you find that the Unico isborrers' cottages have been the cause of labourers not positing milk from the farmers?—I have no experience of that. I think a great many of the labourers could of that.

do a great deal towards getting a cow themselves if they do a great deat towards getting a cow instrument is now, kept their are peoperly.

Yet, The Causanne,—Yeu are farming with the Daltine and Cownded Order?—Yes. No man one be registered without permission, and that permission is

griterin without permission, the case permission of granted until he has stood impection.

796. Mr. Garriena.—That is in your area?—Yee,
Prof. METERS.,—That does not universally apply. 729. The CHAPTER, ...... understood that registeration

simply meant an lutimetion to a local authority that simply meant an improvement to a none authority man suffic was about to be versided in a certain place, and that thus fact was noted on the records of the local sufficiency or could obtain officers to see that the excit-tions of the Local Government Beard Order as to the steeping of estile and milk were observed?—I think you will find the words that he shall not begin to occupy the premises or to sende without the marchon of the local

Mr. Canragas. - That is a new shed, have personal expenses of the administration of this Geder in a certain district; of the shumintation of this Order in a contain district, does that experime enable you say if the conceptor of their district are fortidates by the local compare of their contain bettings; until they composed by them contain bettings; until they composed by the contained of the 802. It was suggested here that it should also be

803. Do you think that would assist in making the Dairies and Cowsheds Order more useful?—I believe that a license would have that effect, but I won't tie members I am not sure are always the proper persons.

M. You are not the only one who has expressed doubt on the particular point, but, at all creates, you do think that it would be advantable that an aome outlook property to use a house whould be verted him to the control of In fact we have assumed it to corretves, whether we had legal authority or not. If anybody attempted to sell milk without to presecution, and he is not allowed to sell milk with,

805. Did you have any prosecutions?-We had only one preseration. 906. What was the result?—The man was fined 17.

996. What was the result.—The rear was fined 1/1, a welk laders for going to his tentine context in a dirty combition, and I had to presentle him also far finding have in a durty condition in connection with the rolls uppely, and he was fand 5/1.

907. Mr. Wanczo.—I gubber 500 have got what is possettedly a housing system in full working order in your serval.—Ext. 808 Lady Evenano.—I think, from reading through the raits, that Professor Manua is perfectly right that

that power exists?-I decessor it is a year end a half I read that Order, but we drew our rules in section of the McNett.—Supposing you had permitted a near to be registered, and subsequently his dury be-came unsatisfactory, what action would you take?—I would give him his choice of two things-to put his

size in a case of two units and a same of two units and a same of size of the procession resulted only in a fine of Six would it have much effect?—The diagrams of a procession in the same of the sam

rein.

\$11. The Crassins.—Have you ever meditated pro-secutions for want of sheadless in persons connected with the mile?—Cally is the one case I mentioned. \$22. Have you ever whered them with regard to shifte?—Kes. Last Stierriby I warned one pur-tivality description of overs. I was not establish thotast deary-accepte with 40 cows. I was not natisfied with the clearliness of the cows, and I sent for their owner and pointed out the faults; he was in great dis-tress about it. I know in his case the clear of darry 813. They are rather carsal labources?—Yes. Many of them are shouldedly unicustworthly. This men gives his men £1 a week, and if he pays them on Saturday night, on Senday they will not turn up.

614. Lady Evrman,—Have you get a veterinary sur-geon under you?—No. I do the whole thing, except that there are sub-sanitary officers. 815. They report to you?-No; to the local autho-

816. Prof. Marxan.—You get word of their report?— You. The Nedwal Officer of Health reports to the Local Authority, and the Suh-Sanitary Officers do the The Chamban.—You have no ky Inspectors in your districts?—Not in my district, but in one of the urban districts which runs into mine, that is Dalkey, they have a man who is an ex-pelicemen sits, where a man wite or an ex-periors with regard to those singularized importune; is their inspection efficient?—I do not see how it could be. They are maritted by

imiring and education and everything else for the 819. Do you think that it would be necessary to have these mapecians carried out as largely as possible by professional gentlemen?—I do.

by professional gratiesman\*—I. de. 280. Perd. Mercus.—Spaning generally, throughout the country what is the class of core—is it as del cov-or a young our that produces the milk? Too mention in the summersy of our wholens as one of the resource of the deficiency of milk the useries disposage of calves, the contract of the delice of the contract of the con-tract of the helices we and surpress?—I think the mention of the helices we only to show how the stock because Assisted.

22. What is the system with regard to the militing cover-do the people loop old or young cover for the propose of producing milit—As leng as the old cov-produces milk satisfactorily the is kept. They are more fleely to sell her when she misses.

852. You were going to tell us something as to the relation between agriculture and the incidence of discase. Will you explain exactly what you mean?—I think pethaps we cannot do better than take auch a same permaps we connect as nearer state take age a destroit as that around Mellingar and Castlepolland. If you wanted vegetables in Mulfingar you would have to send to Dublin for them. There are thousands of arrest of land under grown there, and this per-manent posture is not of the best, and I believe it is determining. Much of its a not well include after. You have bushes in the gaps and white are growing on the land. Red water in outile is very much encouraged by the confitures on each lands. Insects which are our-riess live in land of that kind. There is little labour

employed in that district. employed in that dishifts.

(Si. Mr. O'Blums—Are there any labourers only lage there at all —There are in some parts of it. It have very frequestly been divide two horse in some of any if the people user wrated to go hade to tillage, for a time they would find it very keed. The labour is not there. For want of labour the land is not of cultivative, and for want of cultivation is higher and the contract of the labour in the labourer in the lab

organs on one mod. There is want to inhour, want of tillage, and disease in the chock. 824. Dr. Mossanau.—Rullipitown is an agricultural district?—Yes, and as you go on to Frenkford that is a good tillage district too.

a good tings marrow was.

835. There are large numbers of costages being built
by the Tellamore District Council?—I am allel to have 160. Mr. William.-While you are on the question of this inter-convection, I would like to know how the estile trade affects the milk trade. Have a definite opinion on that point?—I have. a niveline openior on this point — inve. In a security mad keeping of stores causes a preference for uso milking teeds. I was no Moste recordly, sai it for Contepolity, sai I met friends buying cestle. On sas, "I am looking for White Faces "—that is, Herriche—and they wou't have onlything else on that dis-

trick. I do not think the color of recommendating qualifies.

807, Mr. CAMPREZ. There is a very large number of Black Bulls—Pulled Angus—sont cut by the Depart-828. The Department subsidises about a thousand bulls every year, and a considerable number of those are Black Balls?—Yea. I so told by the Tyrore man that

them, even as a store, as well as the Abendeen Angus. very fair millor from the Black Cross NOT. That is the first cross?—Yes.

829. That is the first cross?—Yes.

800. Mr. Witson.—Your opinion menus to be that
the cattle tends has been adverse to the dairy trade?—

Yes. I host upon the store trade as more enhanting to the land than saything else, became you are taking to the little land tone of mineral products.

831. Lady Eventus.—Don't you think that this cleves mentals system is doing much decrape to the land?—I do not think I ought to give my opinion on

landr—4 do too seems. A congest to the state of the state 833. You said you were told the Herefords are not good milkers?—You.

good millers?—Too. Saits a good millering steam could be test with the first recould—them it is nonello. The test with the first recould—them it is nonello. The first of the first recould—them is the the first recould star are good colvent.

880. Dr. Moorntan—dray young manal during the taxes it is making it body with gias a lost of toes out of the first recould be for the first recould be recommended by the first recommendation of the first reco

806. Mr. O'Barres.—It meens healthire land?—Yes, odd an increased population.

887. Lady Evrayan.—Is it not a fact that the Drawfunct's breaks are given through the County Compartment's breeds see given through the County Com-mittees. The Department carnot say to any county, you must only have a particular breed?—I cannot se-

838. Lady Evenson,-Ie it your experience that very good graving hand in mot the best for dairying? I can not say that. I have not gone into the present Thom good graining asses in more one book for daily-sage one most my that. I have not gone into the matter. There are lands that are specially adapted for darying purposes and others for fattening purposes. 839. The CHARMAN.—You speak of neglect of farms

own, 110 transmist—Lon speak of holyson of farms boung a source of infections to eather in the district to which you refer?—Yes, 800. Would it be possible to largely increase their produstriceness and health by directing the lands with lines seed farmyand managers?—Yes. I am a great be-841. These lands are practically left in a state of nature?-Yea.

842. And the owners and occupiers do practically nothing but change the cattle?—Yes, 845. And expect the land to continue growing boneproducing stores without any sid whatever other than what Providence has endowed the soil with?...You, that

864. That is a most uncommunical use of land?—Yea. 865. And not only uncommunical from the point of one. And has only unconstructed from the point of wices of the occupar, but also from the point of wices of the well-being of the country?—If I may use the expression, I look upon it as absolutely immural. I have in my mind a form that I passed a few recits ago. Some iteraty years ago there were fine buildings that were never helds for less than a couple of thousand pounds. The whole farm was bought for about \$1.500. pounds. The whole same was occupied are notice and.
The man who has it lives miles away. The house and
huddings are in rains and there are decise along the
fences, which are broken down. It is lamentable to

took at one puse.

846. Mr. O'Beste,—There is some Act—I think it is.
the Naziras Weeds Act—and if that were carried out,
and all those thinties and docks were removed, would that all thick manner and norms were fraction, soons there still be danger from the harbouring of treles and other germ-energing insecto?—There would. That particular Act does not go for enough in the matter. 847. Prof. Marram.—Do you think inheritations is very common, generally speaking, in the dairy cettle of Iruband?—Honestly, I don's. Having lived for many years in England, and compared the frish nattle with years in Eugland, and compared the Irish oattle with others, I think they compare favourably with the cettle of other countries in regard to tuterculosis.

848. Mr. O'Barry, That is solve toberculosa? I am speaking of chinest toherculosis.

### Mr. Wilson.—With regard to elinical substru-losis, what is your opinion? Are you fieldy confident that in your spea there is no climost tubersulosis visible?—Kee, and I have to coier cows out of the

NEY. 850. Prof. METTAM.—CHE you follow those count.—2 860. Ped. Mirrau.—On you follow these nover.—s know where they go. 832. Mr. Winkow.—World you not daughter the cow on sight when you recognize chused thereconsist?—I am not strengly in foreour of daughtering tay man?—I am not strengly in foreour of daughtering tay man? ammed without ourspensation. Those of you who re-mainter the experiments of Dr. Ozernischod will know have been applied to the control of th

to sloughter all subcrouler enimals. A certain number of these could be used for brooding purposes, with a 862. Prof. Marraw,-Those reacting to tuberculin?

\$53. Our you follow the sow that you have ordered out of the dairy?—She is sold in the Dublin markets as a stripper.

854. Someone this gets her?—She as very probably
fastened either here or on the other side of the Channel.

855. Mr. O'Berne.—Some of them would nover fat.

ten?—Some or mean will.

\$50. In there not a sale at poor prices of many dis-eased estills to local butchers for context purposes—for supplying workhouses and the same, and that ant of thing?—For. There used to be a man in Kingstown. sampr—10a. Mere used to be a mm in Kingstown, who is dead, who had an army contract, and we always lonew what become of our failures.

897. Prof. Mercan, "Dec" you think it would be very mintary when an arimal is suffering from obnical interestoris to destroy it, paying compression?"—Yes, 889. Mr. Wincor.—Have you any evidence that in colonal is not used after the moment of discounts?- 32

Prof. Manes.-Let December, 1911.

859. Have you my endence that it is done in other districts?—It would be a great paty for me to say say. thing to errate a seare against enouncy milk, because the arrangements are well carried out, but there as a great deal of milk of tubercular cows in every county I have been in.

860. Sir Jons Lescrusses.—Do you think £10 to a nar compensation—it women depend on the cov.

861. In it a good weenge?—It counts a good average.

Supposing a person gave £100 for a price Shurthorn
cow, is be to be offered £10 for her if she is to be
identificated?

862. The Cuantum. The compression is limited assemble to the Order. That was a specific I put to another witness-whether, in administering the an official would be influenced by the knowledge that in absorbtering an animal, and allowing only 210 com-pensation, he may be reflecting a percentry loss on the

persention, he may be reflicting a percounty loss on the owner?—There is a great danger that that would in-See Prof. Marray. #100 is no exceptional case, and the period who can pay that would be able to take recept precentions? Many a distribute would give \$24 864. The Comman,-What I from in that the sum fixed is so low that the officer will feel that is is doing

fixed is so low that the officer will feel that in a doing a sarious ask with regard to a certain individual who has, through no fruit of his own, had the ministrators to by a core with turned out to be tubercaute, sell for which the owner may have publicate, 218 or 500, and that the person who puts the Order into operation against him knows that this set means sentificing 210 or 213 of the owner's money; I think that he would be inclined to bushute before currying out such a dreatic And there is one additional and that is, that the person having the administration of such an Order should be in an independent pourson.

with acres reference to its real worth. You Day is with 210 is a good prine for a diseased animal, but a lovinight or a month before the dukyman may have ped 216, 218 or 250 by the animal?—I think that the cilical should be a whole-time offers, if possible. That is why I object to the best satisfactly. If there were nome control authority with officers to corry and the some comman amonny was concern to early on we respections the work could be done properly. 866. Miss McNenz.—Do you think that the Inspec-tor so appointed should do all the work, or should there be a reference from the local mont.—The veterious;

one the staff rather than bring in layours 867. Lody Evenson. You would suggest a whol-time effect for each county? For such a district as he 868. And who would be he responsible to-to some control subscript-Tes.

800. You say, not the local authority?-No, not the local authority.

870. Mr. Winsen,—By the local authority, would you include the county council?—I look on the county council as a local suttority.

Would it be much more expensive?-To the 872. Yes?-I think it would be an economy Fig. That is, the present solution are seathered over a large number of veterinary surgeons, who only give part of their time to the work?—Yes. One veterinary surgeon night turn them. Undee, vary often in differ-ate continue. Printage one of the Unions would be 15 rat consises. Perhaps one of the Unions wount or so-miles from where he lives, and when he is summaned he has no power to do saything. In fact the whele, system at present under the Contegious Diseases. Art is as a ridiculous condition. Some districts are without any verterious condition. There are these or four or any verteriously surgeons. There are three or four no Compils, with a population of test than 4,00%, and if you draw a line from Ballinasine to Galway, and from Banks to Norseph, and complete the square, you had, until recently, an area of something like 2,000 square gates with not a veteriously surgeon in it; and cutil the gates with not a veteriously surgeon in it; and cutil the Department sent a number of young men down into the occurry three were Counties Lefteirs and Denugal, and that district from Killsroer, with a curve to the caust. to Cork, some 4,000 square rades in all, with no veter Sizes surgeon.

876. The Charman.—What has been done is not by
any means complete?—It is being done only in the

Congested Distracts. It would be a soving to appears whole time officers in other parts.

875. Mr. Canvenia.—Le st your experience that the local subligities who are the masters of the persons iceal sutterflies woo are the masters or the principal Importers are also the men who have to be imported by the veterinary surgeous?—Xee, that is so. 876. And you don't consider that very satisfactory? punitive powers over him.

877. The Chamman.—Have you discovered that there

is considerable loss from contagions abortion?-Yes; in every district in Ireland. 878. Has not that been checked by the dissemination

It could not stand the strain?-No. Here are a few figures. In County Edicary there were \$0,600 town, and after making a very excelst calculation, I coves, and after making is very except absolution, of eacher to the openission that I was parting it at a low estimate, when I and that ion per cord, of the corns of the corns of the corns of the corns of the answer's milk only only. Publishing a sall at all and the order at 200,000 lead in that centry. Assum-ing this was that a 200,000 lead in that centry. Assum-ing this was bad a sufficient out a held of much cover in Elembal, and that the per cert of of these cover suffer-ted that the contract of the cover suffer-

ing ans we not a million and a near or miles cows in Irehand, and thus ben per cent, of these cows suffer from abortion, that gives you 160,000, and multiplied by five it gives a loss of three quarters of a million orling. 880, Mr. O'Berry,...That is a low estimate?...You. 88d. Would not that loss be modified to a great ex-est if there was some wanter darrying and tallage, in this way-that the cows would not then be calving at

the same time, and where a cow shaped in the car stages she could be put to the bull again. They don do so in my own dustrant now?—That is so. I Tryues they are complaining littlet's because the or interly became the out 860. Lady Evenan.—Do you cannoter this a usual thing?—I can give you an authorse. If you go to Charleville or Kilmellook at certain seasons of the year 885, Mr. Wriages,-Days your estimate of too per cent. refer to the present moment?-On some facus it will run to ninety per cent., and in others to one per cent. Only yesterday I met a man who had on cown, of which mise aborted this year. There was a lody no Chillomy, Co. Slige, to whose place I was cent, and I inspected her hard of 2I cows, and found only three of them were up eath. That meant a loss of 2720 to her.

nearer to 2200. 884. Mr. Caurenza.—Did you not go into the whole thing rather carefully in the County Limerick at one time?—I did, but I facey I banded over my papers to the Apricultural Inspector there. I think he and I 865. You could not say now as to whether there has been any improvement in the County Lemenck?-No. 886. You do not know whether there has been an

togrovement owing to increased instruction?—I can-not assert with regard to the Dany and Combods Order, but in other respects there has been a great 

889. And they are doing their best to chesk its ravagen?-Yee, they are doing a great deal. 890. Mr. O'Banss.—Are you of opinion that the de-crease in the niffk would be largely due to the preve-lence of abortion?—Yes, it is one of the chief carses.

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891. Net only that the calves are lost, but also the it makes it very difficult to keep up a strain of good stillness.—Yes. I know one man who invested has all in a herd and contagons aborton broke out smooth his about and broke him, leaving him dependent on inc risoning.

he above and broke birn, leaving him dependent on its friends.

892. You are of opinion that the milk supply depends to a large extent on getting rid of this disease?— Yes.

803. It is a very hig stem?—It is very important.

884. The CRAINCES.—Let I cally the nost important less.—Let their it is.
804. Mr. O'Britzes.—In the germ that produces this thorous left lying on the ground, or in it bedefully distributed to the product of the state of the letter of the wordstep, and so

would depend on the conditions of the weather, and as on. In many cases I have known them to he in the open air fit waste.

Seft. Supposing you have the observed Sakus lying about the ground, in these shanger to callie gening over that general—Mrs. I believe no, for a consplexable

867. Where the Department of Agriculture has annihilated premium bulls—I suppose these have consumer you notice?—Not othersity, but I have majored about them.

808. Are these bulls supposed to be under the immediate inspection of any perficultor presen?—Yes, under the Department's own offently, but that is not

under the Department's own officials, but that is no we bench.

850. There are pressurings taken that these pressure both, to which practically the best cattle as seen, are impacted and distributed and every core taken they would not be the women of secondary over taken.

regard to treatment and prevention.

Mo. I say the beause there as a very previous line of the large state o

isotepit to the boll are distributed before they are broughts—I always tell indicators that if there is the slightest suspection of a core to send her execution of the slightest suspection of a core to send her execungation of the slightest suspection of the slightest 9th, Perf Metron,—Have yes tried abertins—Ro-928. I may tell the Commission that showing is not satisfactory—We too very much limited by mutable of the slightest slightest state of the slightest better. Those is the theory of the goat. At the bol-

solitoforcy. We toe very much lindered by nuserical interacting his peak who capt to leave better. There is the theory of the past, As the botter of the peak of the past, as the botter of the peak of the peak of the peak the matter is that any feature whose cuttle are entiring from shortion would find gon't milk useful as a satellited for each cover with. In the same way the activities of the peak of the peak of the peak of the block lay in the chiracy.

Oh. Hr. Curract—Are there may obser ruper, entitions with regard to the prevention of abortion entitions with regard to the prevention of abortion—

why creed and absolutely obodic. 900. In these the suspensition of burying the fortus in the dables—Yes SGG, Mr. O'BRIDS—"Place is 'n prevalent rides that the keeping of goats on the same hard as the cattle will prevent absortion. In these anything in the land

that the costs will sak a certain bertage that the costs will not eather than the cost will not eather than the cost will not eather than the cost costs of the cost of

there's—I year amount of the off delation of the office of

922. Have you say also as to the precenting of stars, cover that wealth could "nest"—I can coly make a goosse. 
933. You know the coulds of Gianterin'—You. 
44 them would "re-out"—I make condom that I could not be surprised to have it. What I mean to say it will be the condom that the could not be surprised to have it. What I mean to say it had those means that have been solved not be that one of the country of the country

satis throughout the country would not be zone than the per country to per country the country and the found court off per count. of them recorded, and yours estimated court off per count. of them recorded, and yours estimated the statistic day experience. If the twent the court is the past of the Dublis market, don't you think it would sply described—If the co. In rever get a keet

in Courty Fusilite to high as that.

In Courty Fusilite to high as that.

The Fusility or the respectability that the percentage in the form of the court of the court of the countries of the examination of Queen Victoria's herd at Windsor's 80.

938. Forty nationals were tested and 50 re-nated. Mr. Custrant.—That was 80 per cent. You thenkto persentage in Leibind as not so high as in Great Fixture—Question to the size of the light as in Great 939. We will abin the pround to Great Parising—out, of the action of the control of the co

county, a the country and were the mass can our country and the country and countr

999. Wetall you collader it a scroper thing of we sent these owe to the butchers. "An. If you adopted the system that it adopted in some freeign countries of acating different grades of meas, and have some of it destroyed and some sterlined, you could nake very good use of such meah. "Gloovern that would south the such meah and the such would be much likelysouth do you timbe that there would be much likelyto-soft, do you timbe that there would be much likely-

head that these would be condemned for host—I are thinking of one of Gitsouvin that shad of tobseudous, 1922. Their was a pres-dred one's—Ten. 1922, their was a pres-dred and send to the busher the summals were factored and send to the busher than the state of the send of the send of the busher and to the send of the send of the send of the world of the send of 1920. We will be a type.

a hag would be conferred for food?—Ton sever laneually into or them open, and that some of them, and been certainment. We not a several to the contract been certainment.—It would depend on who had inspected them. We not not been confine given; 2027. I don't think to, Are not poople orolling desirgers always as Elliby to be tubercular as the corns we our referring sold—ries, contract that many of them would be until for themself (sold—Day you may receible:

be until for human food?—Dis you muon reacting
cone?

999. Yes.—I think a large proportion of them would
get
puss.

600. I asked you the question for a special purpose,
because if we see going to try to enablood; table-enlosis
it can only be done by a review of foodies and risk

"It can only be done by a system of holders and right imposition in this contrip, to we may not allowed by pathing opinion in this contrip, to alress the future to provide a state of the contribution of the contribution of the stand it have often done. If "Alse Greystones—a great arms of prefriedment more occur there from Dublin, and the dairy people rep set or their hash belowers. They obligation had be cover tested for tubercoins. "But the contribution of the cover tested for tubercoins." "30. Mr. O'BRIENG—By Words——I desired to do its,

93. Mr. O'BRUEL-By whom?—I deshined to do it, our I am their Improofs, and they get consider reterial may suppose, and they get certificate that their own are free irom teberedous. Any own that see conditions of the condition

during the summer?-On a summer's evening they drive out to the field. They unharmess the home, and

Prof. Mason.—1st Decreeder, 1911.

the up the ran, and step along the belgorow, wake up on the mercung and pick a few mandressons. They milk the cross, and have a cloth to steam the milk unto GGA. Are the stees sizes when they go not a go to have with them in the moorest data?—I think they sould the work that the same than the stees of the steed the sour. The parts I shows promise about a the north-line of the north-line

the mention, danaber point that a track no (da) more upon upon the critical as any the milk to the loogidate on the milk of the mention of the milk of

in the step on order any concentrations any go on.

In the step of the step of

bod any vesion to blame it for any disease.

600. In not there an amount of fernomission?—It thinks a main more disappress thing is the wash. Many of the distription are of options that weak is one of the causes of abortion in housed eaths.

900. How it may other injurious effect on their bestlike?—I don't think no. It is said to free the

1903. List Naramo-Under Wolfe importing and 1903. List Naramo-Under Wolfe importing and there have and easily that are such out from the only not become the list him the special part and easily they come have the right to some after them. 1914. Has McMona-The antiforthy by which they they come have the right to some after them. 1914. Has McMona-The antiforthy by which they 1914. Has McMona-The antiforthy by which they has the Charles Cannero's officer as follow him. 1914. Listy Naramo-We shad the question of the Obesies Connero, and he did not both this her had the Artist I all of the Danies Order, better McMona Officer.

pierer. Supposing a balcenable core source unfort. In the control to the control

information they wank.

944. Mr. O'Braw, -With regard to the train-borne milk, in them any system of inspection at either end to see that the ones are properly closed and that they are peopelly feeded on the rulewy?—I have navir beard of easy and what is more, you will constitute use on the receiving challenges and the same on the receiving challenges milk translatered from one on the rulewy?—I have navir beard of easy; and what is more, you will constitute as on the receiving challenges milk translatered from one

wood in order and perhaps a tension closure weatied. That a letter from a perilinean on this space, then, and he stand, —" Lobrid like to drew your as then, and he stand, —" Lobrid like to drew your as Double Secondary as I was writing of Weekland Sow by the served of a tens. I saw the milt tens from by the served of a tens. I saw the milt tens to come had high-dring pile, and now or two views to come had high-dring pile, and now or two views to come had high-dring pile, and now to two views to come had high-dring pile, and now two views and the come had high-dring pile, and the same and the come had high-dring pile, and the same and the come had high-dring pile and the same and the come had high-dring pile and the same and the come had been as the same and the same and the same as a regard of the same and the same was a regard as a same and the day of the same and the same

6.66. Do you blake it wise, in order to persont this seed of thing, to have persone made for siding souther against the Bullway Georgeny for courying rolls in that scattering, and so compared from to refer receiving it could be compared from to refer receiving it made amendate receiving which is the second property assisted—Security should be made amendate. But this should be selected, but that also they found that the second property assisted to see the second part of the second

team should not only be locked, but that also thus, should be solded?—That would be a very good plan. They stole ells, of butter from me a short time app, and the Railway Company gove me or redraw when it reported the matter to them. See Peel, Merrous—be it not a fact that the beef of a tuberculous over us not very disagreess for human convemption?—I fail to see how it should be.

consumptions:—— that he see how if eachly he 949. Unless there was generalized tebercolouse?— Unless you get a lesson in a very advanced state, but spenking generally, the greater part of the carcesse is innocesses.——So. If it was a level heaven you would not dealery the carcese?—No.

the concess?—No.

(91, 1s the case of a therough-band core, no one
makes a parameter of theoreticies, and she might have
makes a parameter of the control of the control

makes a parameter of the control

makes

With complet to the White Scott as that your to that you to these recursory distinctor—14 is found that, by the not solidy there. The disease exists chiefly in distincts where there is only entired electron. But it come where these is only entired electron, But it come by the system they have of suffing their colven in these has the state of the system they have of suffing their colven in their contracts of the system they have of suffing their colven in their contracts of the system. These cutters may divide the sufficient of the system with its Test, but I believe also 604. It is done with its Test, but I believe also

994. It is been with NT—Yes, but I believe she shall be with the bords hanging best the sheds. 696. It is not the reflix that don NY—NO.

995. It is not the reflix that don NY—NO.

995. It is not the reflix that don NY—NO.

995. It is not the reflix that don NY—NO.

995. It is not the reflix that the remarker of the Generalization that the white scourt ness was co-attentive that the white scourt has the contract of the Contract of the North Yes, but there is nothing of that kind in the North Yes, but there is no things of that kind in the North Yes, and the

237. Do you consider that the creatments are in age way responsible for the white securit-Not for any disease at all, except when the conversey zelfs is impropely und.
230. The CREATMAN,—We may have to call on you again, Professor Mann, to give us a histe further endeance at a later stage S—I shall be glad to come

Mr. R. A. Ampranos examined

999. The CRAIMEN.—Tota have been connected, Mr. Anderson, with the Irish Agricultural Organisation Society for many years?—Since it was started in 1894.

Set. Weed you be good anough to give us, very shortly, the object for which the Association was started and this obventiones under which it was started and this obventiones under which it was clubbrates, receipt on outline—1s. 1989 for House Panalest infectioned the idea of apprintment congentually and the start of the started and the started and 1994, when the wester resulting from his sharine had grown as longs that it accessibled the orbajation could object the started and the started and the started and the could object the started and the starte

objects of this Society were to promote agricultural regularation many finances in Testian wherever its appeared to the Assemblian to the desirable Wast to appear to the Assemblian to the desirable Wast 90. And to the sectioned of that the the Organition extended its operations also different parts of the results of the section of the stress parts of the 90. West per and the Irws Aproximity Organities Bookly play in the outside/siteon of errorswer. As the section of the Control of the wave a considerable number of propriety; recurrence established in this Society of Irritand unto by adds with a facility of the Control of the Iritan when the Control of Irritand unto by adds with a facility of the Control of the Control of the Control of the Iritan when the Control of Irritand unto by adds with a facility of the Control of the Control of the Control of the Irritance which has been seek for the Control of the Control of the Irritance which has been seek for the Control of the Control of the Irritance which has been seek for the Control of the Control of the Irritance which has been seek for the Irritand when the Irritand which the Irritance which has been seek for the Irritand which is the Irritand when Irritand the Irritand which Irritand the Irritand Ir

963. Those were gouldroon who carried their opmices into certain districts before it began to move as a regularly organism body?—Quite so. The idea of the founders of the movement was that the events of the tornairs of the showman was that on creat-eries which had been established would effect a revolu-tion in the durying inhestry. They had tenertomed tural Co-operative convenent was that if there was predit in this business is should become the profit of the formers who co-operated, rather than the profit of the individual who expected them.

take at they had a twofold object in view; m the first instance, they desired to improve the con-ditions under which Irok butter was produced, and having accomplished that object they desired to scoure the best possible perce for the improved article? great national asset up to, I may say, 1880, when foreign competition began to close as about as, and

butter of a better quality, and what was of more impor-tance, of a uniform quality. 965. And it was obvious at that time that if some effect was not made to improve the trade generally, that Irah butter must go under in the competition with the improved methods practiced by other comas that time. The prices obtainable were such that quite a large number of farmers had gone out of the dairy

166. Finding butter-making was an unprofitable or constant?-Yes.

107. How for do you think that the establishment

baked?-As far as I can ascertage, the complaints Menth, and some from County Resonance, but in creamery districts we have had no complaints. were the proper body to aspend to in the matter, as to the searcity of milk. At the same time, all over Ireland, and not only in creamony districts and I do not think one part of Ireland is much ween the conditions under which milk is produced that it and urban distracts as well at a price which will an 568. Do you happen to know whether ercomeries ever youd milk for local communition?—They do. 160. There is nothing in the principles last down is the establishment of ornameries, or to the agreement prevent terri sering mint in smar quantum tor isen consumption, if the domand exists?—Absolutely nothing. There is a rule which provides that when a farmer prime a consucer he shall bind himself to supply invested his money, except such as is required for

920. Your armagements do not forbid him from stilling whatever milk he thinks necessary for his

own family 7—No.

971. Mr. O'Bluss.—Nou said just now, "for local consumption," that he is not restricted for local con-sumption?—I think the weeks are "demostic con-sumption?—I 972. The CHARRISH.-There is no such prohibition

172. The Chambers.—Indee is an examination of the Physics of the print reconstitute for milk is by no means probabilive?—No. 974. The price paid at the creameries is a price colculsted on the percentage of butter fat which the xells contains -It is coully not bought, but a value is put upon it in proportion to the butter-making expecity of \* See Appendix A, page 350.

the rails, and this price, which perhaps would not be id. a gallen, would be far less than that nails would realise if self evicall. If any overance, result dispose of its milk et what I might call the popular price of Id. per past, I have no doubt they would do better bush

976. And from the pounds, shilling, and pener point of vira three out he no doubt that the mins offered am has so mign as to include the feet of the constitution softliness carattely for his demostles supply and a supply for his laborater\*—No. The establishment of recommence has undeclotedly search the whos of milk. Under the old system prices were lower, early production lies. By the labelous prices grawing, and production lies. By the labelous

militaries ar restricting the dimential supply of militaries. As a restricting the dimential supply of militaries. No. I put it down to other courses. In the first place, it a farmer now begins retailing his milit to mightour he omes up, against two obstacles—one is dishonarily or ones up. order the operation of the Barrier Order. It is think he feels that if he thrown in his lot with a number of other people who are also supplying number of other people who are also supplying cremocrass, the operation of the Order will not be so

hurtful to him as if he were selling as a malk seller in

978. Dealing with the question of the milk supply how he do you think the administration of the Diaries and Cossibility forder restrains the famous free en-barking in this reted also of milk?—I am quite sure that, wille we were inclined to welcome any restrictions which are fairly imposed on the production of sidk, or any article which is required for human consumption, we slight that some of these restrictions offer on this subject I would refer to the replies of slaty-say Securities to whom corrolars were addressed. In eleven of these cases the Order was not adopted at the Onler made no difference whatever. In seven less it was made systeable to all nells producers, whether they were making the hutter in their own keenes or sending their milk to the creemeries. 979. Are these replies from all over the sountry?-

970. Are those regime from all over the sensity-Tes. I bend in copy of the crossly that we install and a list of the queens that were obtended that not-tioned in the parties that were obtended that not-tioned in the Burnier and Correlated Order were too drastle on sides effect!—Will, it is rather a large order construction of the control of the c the ventilation of the company was elegande. remotive a cownled so constructed that it would contour 500 subse frea sir space and yet have a vitiated thin see sum I can conside a shed in which the sir space would be less and sanitary conditions corn-plied with. On the whole, I think the intention of the Order was excellent, and so far as the open at were extended to darry furness generally.

981. Surely that is not the fault of the Order itself but of the Local Authority or Central Authority speciatio for the administration in not enforcing in?-The Order is obligatory on the Local Authorities.

242, Obviously the duty of cufroung its administration roses with the Central Authority?-With the Authority when they put it min force.
What I wonted to convey in this that the Contral Authority promulgating that Order has a cer-

984. Do you complem that that power has not been made sufficient use off-We complain in some cases

progressive dairy furners—the mon who send their 200. In other woods, if its operation were made un-versal you would not find fault with any of the powers

conferred by the Order?-No; we might even be in considered by me unuser—so; We maghe even so in-olited to suggest more stringent regularizors.

984. We would be glief to been your suggestions as no extended powers—in an speaking for a Committee and not for myself, but I think I might say that the Committee of the Orpanianton Sectory would be prepared to go just as far as any reasonable suggestion would carry them in regard to the supplying of pure

would carry them as request to the supplying of pure malk for hymone, ententaption, provided that the con-ditions under which this milk so copylied apply all counts to people making hotter in their own-hames or supplying ensumeries. What we object to its, that what a number of framers in a leastity have spite to own the control of the control open by the Loral conditions are the control open by the Loral conditions. Authority, whereas people who strek to the old system of selling it possibly under insensionly conditions, and selling it possibly under insensionly conditions, are let up seed from We obsent to that and think it to a public denser, and, furthermore, may may that a certain amount of rulk must be sold may bey not a corresponding to the cover which the cover which there is no supervision. With the covernors the supervision is very street.

987. Your compliant is that there is unequal ad-

ministration of the Order?-Yes. 163. In some districts you say at as rigidly enforced

988. In some distincts yes say at an apply entreach, in other partially, an others is in a population but seem to be a superior of the same of the sam

660. If the existing law were enforced these people would still be left out?—That is so. 961. The CHARMAN—At present, as you are aware,

the out power taken more than owner as to regarization. It has been suggested that that might be extended to homeing. What would your view be of that particular question?—Provided it is conversal. of the milk amply?—I personally would have no ob-

998. I see you want to direct attention to the shannes of darrying; does that refer to certain districted—Yes. 994. Have you got any districts in mind where it is absent?—The great belt between Drophela and Wighless right access Ireland—the English Pele on the castern ride and the congested distincts on the weacontent than are not congresse marries on the wea-tern. One part is risked to be too good, and the other is too had for darryang.

995. And thus is used to supply the Sexon with beef?

-Xes. Is it your opinion that the land of that district 996. could be more advantageously and concernedly used in the production of rath rather than in the produccon that point, became I have heard people any that if on that point, because I have been people my that if you put a cow on the dairy farms of Month she tends to grow fix tasher than produce buster. Then, on the Western sade the land is too bad to reteropt dairying or anything of a large seels. I think, though, this there are quite a number of districts on the border-land, if I may say so, where tillags is being practised in which the future of winter darrying will be found. You carried continue darrying in any country loss you produce an all-the year-sound supply. Then tillage districts may in time solve that problem, be sillage deletions may in time score that processor, re-come farmons there underskend the cultivation of the land, and would, I am sure, he ready to try experi-aceds in feeding which would outside them to preduce malk during the winder, as our Dennish compatition of all the present time. I have dilution in Dermark as the present time. I have distroys in Demnark where they have on absolutely unform supply, and the quality of the butter produced is practically identical all the year round, and this is due to the fact that they residential the question of mff production and also of steding, which is set important thing. They have a great deal more of shall-bosting than we have in feeling. We may rely on air months of great feeding, and have six months of article feeding, and have six months of stall-deeling has in Demande they connet count on more than four mouths of great

only could be seen and one of the property of the seen 968. I take it that you have no doubt that in order

FOR I TAKE IN THE YEAR THE THE WASHINGTON TO COMP OF WHITE SHAPING IN A SERVICIÓN CASÉ PARE THE WAY BILLION OF THE WAY BE AND undom supply of milk all the year round wholes dairying is necessary N—That is no. 1600. In there saything in the soil or climate of Ireland which forbids the hope that it is possible to produce much food as will be suituble for the main-

produce men noon so were or whomes are not avail-ternance of outtle to the senson that grass is not avail-ship?—I don't think so. There are difficulties onbenames of course in one waster and the conditions on the condition. There are parts of frelind where gross is the main fadder, and where the lind is rather of a beary notice and rather difficult to cultivate; but I have reason to be a fadder to the condition of the condition o believe my information is correct, that scope could be because you must be independent of temportuses; and planeate object. It is quite valid to confirm you are planeate object. It is quite valid the beautiful your difficulty that moght ones value this beaut. For in-tered the planeate object, and the planeate of the 1992, types report to find sown on notable bod-tomotion, but it is not to be the planeate of the property of the planeate of the planeate of the property of the planeate of the planeate of the planeate to the latter at that much from grown in the surgace. If this do not be prototon of bending its becoming most and more simple as we go on. It is mainly a questoor

of what alsos of sout you can produce chaspeat.

1002 Have you say remain to thank that the male is not supplied to consuceres in a remneably pure consistency—as regards obsaintees, I am afred that the histories which is a supplied to people are very much against the supply of your mile, but I am glob to say, ofter an auroph of your mile, but I am glob to say, ofter an supply of pure man, you I am good to say, mer an expensance of twenty-two years, the cleanliness of the milk is visely improved, and we don't notice new such things as we did when I began this work. totage sis we are warn I began this work.

1008. Con you say whether the milk is affected by
say germs of disease?—No; what I can speak of is the
sincense of shilteestien and dist.

1004. I take it you would be in favour of support.

ing any legislation which would improve the conditions under which milk is presisted, either from hyginnic or occurrery point of view?—Containly. May regulations were enforced, and we were ship to fall the public that our hutter was made under these conditions. I believe that it would be an advertisement of

entermous value to the first lende.

1003. And archance its price?—Yes.

1004. You sillude in your summary of availance to the low rate of wages paid to the agricultural labourers.—Yes.

abources?—Ica. H07. Do you speak of the country as a whole or of certain districts?—I am speaking of it from the Board of Trude returns, as spearing of it from one noncor of Trude returns, as compared with the returns from Empland and Scotland, and also with the districts in Ireland with which I have an internate knowledge; and I have come to the conclusion that the searche

use not an antecessari to laboral.

1098. When you speak of the scentry of shower, do
1098. When you speak of the scentry of shower, do
1008. When you speak of the scentry of the
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to be good at I think the process system of providing to the process of the proce

until deel: night 6e over them. With it is be position frow? They are no larger trained to the larmer. Sow? They are no larger trained to the larmer, should of the cost, and the other two-thirds are positions, and the force these servantage, of the subjective, and the force these servantage, of under no obtequien to veryle for the famore, nor the force the surply than I foot! Withis I sam going too for whose I say that the effect of this begintion is to force the surple of the subject to the subject to the said the judgment is including the subject to the subject to and the judgment is including the greatly to the disaction.

ting it book these. But you think the common general property of the common property of the

which may possibly operate squares the laborace being table to got a milks soughly freen the forece—like they see us barger on the old friendly forms, see us barger on the old friendly forms to be the second of the second of the second of the laborate the farmer does not like to retail milk?—I

believe the farmer does not hike to retail antify—the party of the processor for their to proceed for their to be proceed for a partial their farmer replying mint to the executive than to others engaged in different forms of the dairy industry—though a world for the proceed for their proceeding their partial time to be presented as expands the pursuant of milk, the Order is reduced with influencements subclasses or stirringency.

Dith. Here you say suppresses to make with read to the proposal of suppress and in eventure, as no selected to displace a subset in eventure, as no selected to the superior of the superior to the superior of the superior o

High. Do you propose that there should be depicted established for the skinderboar of the rific or was it that materials that the deep formers about supply the temperature of the state of the state of the state of the state proposed that the whole than plotted be since through the ensurery owing to the first that the latest through the ensurery owing to the first that the latest through the ensurery owing to the first that the through the ensurery owing to the first that the wear the whole believes done by the centure, but of a century district, it may take too hone, to make of a century district, it may take too hone, to make the district the state of the sta

district, and where the supply was sufficient to warrant him, to put some respectible person in charge of it. You might by those movus overcone the farmer's objection to restall the milk. 1015. If the scheme is to be satisfactory it must gravature a certain domaind at a fixed price?—You.

The contract of the statement of the sta

between might must with as somiout within in their content of the property of

mum of 15s, per cert, on the wages that.

1039. These two causes to which you refer as climating the furmer free the historie have been ide up to by ceuses which were intended to improve the recolition and to increase the independence of the labourer?—Kee.

1000. That is the swirt of the see, and is it red.

1 Hotorevi-ace.

1000. That is the spirit of the sgo, and is it not as abouturly feithe to end against logislation hand on these lines\*—I must set be thome to infling against the state of the spirit of the state of the spirit of the spirit

Mr. S. A. Axaguson.—Ist December, 1921.

very much—not heavily as much as ought to be desir. If explain to be a theng that we no obvious to the farmer that he ought to have does it on his own militatives.

The property of the contractive of the contractive of the property of the contractive ought to be set up a con-testing ensectation, comprising all the property who supply until to the contractive of the contra

sight to be set up a one-storing association, completing all the people who expery unit to the concession of the control of th

country. It is very suspection. We hope the Department may read to the drive sere solution, or will drive it is humarities, whethey we can relate, to a ser coulds, and impore their milling qualities coupling suppression of the series of the

sent Immediates—Sen. I rely on the finitions.
2004. The Constant—There is no notest amount of supplies and exceptions of encycling that somes from the American Conference of the Constant of

and to the feeding the assumption he would not be seen to be been assumption be would not like the best of the seen as the seen to be seen to b

Antition, you cannot find her much beyond it. You may increase the nilk fow, but not add to the left. Its own ingrove the quastility but not the quality.

1025. You don't believe thick the quality one he improved?—That is my option.

1027. Mr. Cuttrealt.—The question. I think, was do you highly you on increase the yield of milk as any

in you think you can increase the yield of milk in any other way except by these con-testing associations I— I don't think you can.

1038, What I think the Charman expected was thet you should give the entitle hetter facility?—Yes, if they were underly.

1028. What I think the Charman expected was thet you should give the earliet hatter facility?—Yes, if they were underfiel.

1029. If you were to give some of your besis grain you would improve the quantity?—Yes.

1040. If easinst he said that delity owns are peoperly

8040. It entires be used that deity cover are properly fed?—No. 1661. If they were better fed in the winter time with rock creps they would yield more pure mil?—Yes, I think that is true. 1602. Str. Jons. Lesyadows.—What is the winter.

daley one in Demonst feel on generally?—On roots and a certain amount of hay, here, polland and maste. They take advantage of their free trude policy is got stuff in chang. 1603. Miss McNerra.—You upoke a little while ago about mustilelest labour for one reason or another?—

1006. Do you begoen to have if the sake of wages in Related comparent hereveally with the sake in Decmarks, having raped to the cost of living and the sake fagures to make no to assure that quadratic had no information I gashesed in Decanace was that the balls of the people were such as to enable than to have nonconteniesly, and that there a small wage would subble a featily to live in greater confired than in 1035. The Creatment—Bo you believe that goals milk is a distribute for own stuff in a distribute whose own full in a distribute to source—Text, where on their long is a distribute to source—Text, where on their belogs. I have hered that there is a gain evolved that word set belogs. Of course I thank it would like of the very greatest become in a great more of the course of the

ledge?—Yee, I have used good's milk to my len and its wax excellent. 1037. You extrest tell us whether goals will milk better out on good grass or it kept undown?—I are maclimed to their that goats would be smoth better if allored to coare alread. The behit of the starned is cottion.

1000. I can furnishing about the question of supplying malls to librature. The holiumes have now oil protein only got their arm of lead with their cotting, and that a peritally metallic, and should be abused enturely as the protein of the protein of the states of their proteins of the protein of the states of their thing to their their proteins of their things of their posts on a necesse of the lead, or utilize the heard for cross and keep the post andoors, because you will measure as feed on papers or anything this they pick up though the resolution. I am meet gotte like a large sees for each

Frot. METTAK—I know experimental goets, and I know it is one of the most distinct things to keet them on the yord, and agree with the Anderson. The second of the other production of the second of the second of the view witnesses suggesting that all second or the convious witnesses suggesting that the second of the second of the patterns of the transit that it should show to be an or second or the second of the letter of the second of the second of the second of the letter of the second of the second of the second of the letter of the second of the second of the second of the letter of the second of the second of the second of the letter of the second of the second

about, tot no supposition has been sunds that it is should be disen in connection with any of the creameries we have so do with.

1964. It is not done so far as you know?—No. It is compulsory in Demarks, with the also of provesting the spread of tobernsholds in writte. I think that where is functor eners has onlyes on expected milk by

cannot upper the art to be a well-provided as inprovided on which real, or show milk plus fatty substance. The Causaux—Do framen supelesses the appeared milk—That is very tagely draw. One of the best things is good on-liver oil. Creak codiffers of its compressively specifics, these.

D42. Experience to the way in which they can not be presented in the contract of the conposition of the contract of the conposition of the contract of the way in which they are noted in reference to the way in which they are

need as reference to the way in which they are hound?—I do. I think the way the core are kept is very important, and I would like, if the Prem were not here, to speak very strongly on the subject. Speaking generally, the core ere housed in a noot unsatisfactory way.

1048. That has been said from that chair already.—

took, mit tak seen take rom was center areany—

an utflerently take the conditions are abouised as

both. You believe that an improvement in taking
blest—Text, and not only take, to the evenaments their
selves have done an exercise assume to improve the
conditions under which the mits produced. Generally
amongst in ready all course exercise very told toper
mentages in the selve of the conditions to the conditions to the

selves of the condition than the conditions to the

marily. If they find it consists a hir of loreget sub
marily. If they find it consists a hir of loreget sub
marily. If they find it consists a hir of loreget sub
marily. If they find it consists a hir of loreget sub
marily.

they would the sum way closely and appeal for eat time. In any case, the fact that a sum know but there is someone carrelating supervision over his milk supply will have a very wide issue and determine the supervision and the construction in department of the best of the construction in department of the best of which will be best of which you. Go., yor. It is in disarre were intensel, because you control expect to make good hatter with lingues milks. Conceptuate that a come districts the velocitary anapostom inteped, were some districts the velocitary anapostom inteped, where you control particular is not to the present the sum of the present that the same districts the velocitary anapostom inteped ways.

some districts the velocitary ampostors (logical very — Ny year measured with the three party of the 1944; Neel-Stat was the evidence I gave, that in a mashe of most the Order was endorsed stellor 1944; Neel-Stat was the evidence I gave, that in a mashe of most the Order was endorsed stellor 1945; Neel State of the State of the Internet of the 1946; Mr. O'Russe,—And he is inferenced by the 1944; Mr. Wincows—I gather that your athems the the empty of whole milk out the people in the ecomoty.

### Mr. E. A. Axemisco, -lat December, 1911. 1039. The labourer may be the milker on the farm!

districts turns upon the possibility of griding some voluntery organisation to work the scheme; you rentifered the United Irishwomen?--Well, I think it does, because the demand will not otherwise express 1050. In any country district where there is a socity, the thing is to discover some individual or sensety

cut, are uning is to discover some individual or somety who would be premared to go to the trueble of organis-ing the local demand—that is your opinion—Yee. In fact, one con hardly recognise a demand as cristing suless you have an organisation to express it. 1051. Your scheme rather turns on the existence of the voluntary organisation?—Yes. You must have the organised demand, and we will organise the supply.

folgs by which similar methods may be applied in the towns?—No.

1955. We have bad a good deal of evidence given us with regard to subcorclosis and more particularly regapling the elinically tuberculous gove-in there-objection or difficulty about pasteurising separated milk before it is cent back to the symers. None whatever,

The great majority of the overments are equipped with pasteurising muchinery, and wherever it is there, there a no difficulty in postererang the skim milk. 4 05 difficulty in proceeding me sain miss. 1955. Mr. Chertsena.—Do you know what temperature they use for patcherising?—Between 195 and 290 degrees Felse. We find that temperature works very

well.

1056. The CHARMAN—What is your opinion of the
pesteurised milk as an article of food as compared with
suspecteurised milk?—I have beard it said that pesteurimposterrised utilities. It have beard it mait that protectived utilit is not so easily disperted.

1007. Mr. Camenta,—With regard to year scheme, for supplying milk to the labourees where you would originate them to get it force the areanyer, do you mean to say, it I am a furner and readyo there or four lebourers, that I should send any milk to the creament and have it send back they distribute the form of the control of

tion from the crescnery would work out all right when people are close to the creamery, but not in the case of people on the outside. E68. Is it your system that I should send my sailt

to the creamery and send my lebourers to get it there?

—Yes. I am straid that is unavoidable. The milihas got to be treated as any other commedity.

-He would come in then under the bousehold con-sumption, had the man on the next farm would have to go is the creamery.

1000. Mr. O'Besser.—Do you know if any of the
creeneries have appliances for scalding the tankards
after they have reserved the milk and before putting in

the separated milk?—Yes. A great many of them have the Swedish can washer. That is quite common. 1961. Is it done by the creamory pupils?—Yes. 1968. Because this reams to me to be important?— It is an advantage to the supplier, but not to the 1000. The eleaning of the cars would have the effect of improving on the people the recessity of clearly

num?—Yes.

1054. Dr. Mossuman.—The separated milk is pe-turned to the purchaser?—Yes.

1055. And it becomes the busehold article of dist?—

1005. And it becomes the bountsoot arteur or me-les may or it may not.

1006. Mr. O'Exisis.—In three any organization that,
1006. Mr. O'Exisis.—In three any organization that
you are some of tests looks after the tensit of mills
and bother in the train in Mr. The Department does
not after the transit of agreement produce, and also
that the transit of agreement produce to a certain extent. I have been in the train of the production of the contract of the c strings. 1007. Would it not be the haveness of the ones tive deary farmers to organize in reference to the mile in traine?—We have done so little of that beamen that il is not necessary to do saysting in this uncomen. I have learned recently that some measurements in the South of Ireland have exhibithed a milk trade with England. I understand they still this milk and send

in occlinry natiway chams.

1008. Does the radiusy company supply special axis?

No. There is not cufficient trade, and the biulage is so short. 1099. Would not cold ours for carrying our large

butter applies in the summer he a great advantage?—
It would be an ideal arrangement, but I am of opinion
that butter properly male, and allowed to cool sufficlerity hefere going out, will not soften in transit to

cominy native gring out, was not some in transit to say appreciation extent, and that the handpay is on short, and the earthing power of the milways so little that you would nover get them to put on those wass, each that the volume of botter is not sufficient to justify an in suggesting money on it. I don't deny that it would be very desenable that we should have it.

The Communion than adjourned to the 8th December, 1911.

# FIFTH DAY .- FRIDAY, 8TH DECEMBER, 1911.

The Commissioners met at No. 5, Upper Castle Yard, Dublin.

Present:-P. J. O'NEILL, Esq. (Chairman); Lady Everard; Miss Margaret McNeill; Sir John LENTAIONE, FRICEI; GEORGE A. MOORHEAD, Esq., PROSEL; ALEC WILSON, Esq.; DERMOD O'BRIEN, Esq.; J. R. CAMPZELL, Esq. R.Sc.; Professor A. E. METTAN, R.Sc., M.R.C.V.S.

S. W. STRANGE, Esq., Secretary.

1070. The CHAMMAN.—Ser Charles Cameron desired he might be taken for a very brief period this morning to mise a point that he thought had not been sufficiently dealt with on the occasion of the sitting at for the purpose of amplifying the point he wishes to have brought out. which he was examined, and he made application that

#### Sir CHARLES CAMMON, C.S., M.D., P.B.C.S.L., re-examined. Sir CHARLES CAMPBON.--I wish to say that in the

6.0., Falchel, re-excument.
potest, I behavioù, then milk from the owntry. At the same time, though I said that, I did not mean that of a ten milk the milk that owner from the owntry. Of owner, it is only now and then that a reportions of delay milk owner, under my deventation. There are many pincing out to the milk to Dullain who sake care that the milk who saids only that the milk of the milk of the care of the said of the milk of the care of the care of the milk of the milk of the care of the care of the milk of the milk of the care of the care of the milk of the milk of the care of the care of the milk of the milk of the care of the care of the milk of the milk of the care of the milk of the SE CHIMBLE LAMINON.—I wish to say that in the newtyper reports—of course they are very brief—is mught appear, and the appear to roome people, as if I and that no milk came from the country that was and that no must cares from the country that was clean. I never meant or said saything of the kind, but a good many of my country friends thank that a what. I auxi. What I said was, that, on the whole, the milk coming from the city, being under supervision, was cames from a proper concern. I might say, too, that some of the importers of milk examine very carefully the cultimoters are not down to consequence in the campiletes milk, and area of them to consequent of the Wenger's Nakonal Hashlit Association steellines all the milk that consent in from the country they cammen in his of place the unift is coming as. The sense runset, hash of place the unift is coming as. The sense runset, it may say, against to the Zama Inger Company, who make very correlating and it they find that the offits is considerable place any particular persons, they classes, and they subject all the milk that shay rangest from the country to protecting protein, which, of cancer, would be

time taking the milk free that percet. Seconds that, constrict to peteristing process, which, of access, verification of the peter and the pet

awange quality of the Dublic milk, and more expecially to visite, was better than the contacty milk. 1671. The Chantana,—Of course it is optic obvious that is containing the overdence given by the vitaneous the geniferons of the Prece are contracted with a very difficult preclient, and it is extremely difficult to get always quite, in the contense form, the exact meaning that is conveyed to the Commission.

Sir Gannass Casmon.—In in exponsity difficult to drop into the spainter's forms of expression. 1973. The Cammans.—It quite agree, that I morely ness the point for the purpose of occurating to the outside public that it is set always and for them to found their heliafic and convictions on summarized reports of

Charles.

Six Charles Chirmon.—Quite right.

1073. The Chirmon.—What you did convey, and
what has been here out by other winnesse, in that the
respervation of the dairy power and mink theps in Dubin
10 more reporter and more complete than that which
persials in other districts of the country.

Six GRANZEC GARMESC.—II It were not the case that on the seweap the milk from the country is not quite se clean as the milk from the town, there would be no point in the evidence I and the others given while grid to the approximen—the better apprehishes of the places from which the better milk is derived. 1974. Miles MONINGE.—Why mentioned pasteuriestica

1074. Miss McNmx.—You mentioned posteuriestica or order of milk coming in from the occurry to oper utter; it is not suggested that that would remove the difficulties due to dut being process? If were's remove the dark, and it work make the mflit mere useful in

1975. M. Chromatz—Bir Choles, the has day but the property of the control of the

high, or that numers on a towns exceeded of shirt sheadard's secreted of shirt planna milk because of that sheadard's exceeded of the planna milk that the shirt s

1807. Yes; well now?—I may say there are higher fam.?—I think that in when most people milk. State.

1808. So that there is a longer paried between the decreasem milling out the morning milking of the cores.

1078, Well, low low would it require to full before roung the posteriorities that water had been odded?— If we go by the steedard had deen off-odded. If we go by the steedard had deen by the Department sodilis that are concluding the late of the posteriorities of the precomption of added water, and it the falls fall the property of the late of the late of the late of the page have not here added, or that water has been added, or that determine has been restricted to. \$4000, But of the precedings of the fall fall on any \$4000, But of the precedings of the fall fall on any

added, or that dictorating has been received in, MOP. But if the percentage of the third fill is, asy, MOP. But if the non-thir older remained better than the other made accessing I would not preve a certificate generally, but I may size say that if I found the nonsisting solids were consistently over not only the legal, but also over the average, standard, and the other were a little under, I created by a three weed to other were a little under, I created by a three weed to cotte were a little under the country of the country of the the other. The intervious analysis should always carecine perce described in his made.

clies seem described in the matter.

1960. But the near-fatty solids, they are less?—The
non-fatty solids do not very much, and if I were disposed to recomment any reduction an either the fatty
or non-fatty solids, it would be requesting the fats. I think they factuate very much more than the nonfatty solids.

1960. But the former has a fair reotenized in the fact

that the one-latty solids do not vary very mustle. No, they very strely very marke. If they varied is much as in the fully solids I should be included to thank that would be a include a much durper of the former. If the former is not a second durper of the former to the former in the former of the former to the former thanks which is not the former to the former to the former that yolids are up to the standard.—Former the case, were extended experience, I would be disposed to say were extended experience, I would be disposed to say that a standard of 28 faity widely would must the case.

that is historian to a many actus would have see essen. I would outsidely not reduce the standard for non-faity solids.

1088. I deaw your olderstion to a series of exponnents exceed out at Leeds University, Yeldshife. The mile was soul in year and any mile to seek in m Dublin, and I had nevel highly those period out there for two years on.

those animals. This was an actual case.

Mr. O'Brins.—Was the wills token about the same time?

Mr. Caurensa,—One at 6 a.m. and the other at 3 pm. Now toking the mean of all the scalyes dumps that period, the fat was only 276 in the meaning, whereast it was 450 in the verying. However, the build

which period; as we constructed the brief services, However, the brief services was 400 in the creding. However, the brief services, the services was a service of the services of the service

periods. It was discovered by other experiments that it was entirely due to the irregistrity of millions, Would that, in your polyment, raise a presumption that the milk was wakered.—It may say that after experments vary greatly from the Ayrahare Deep superments.

1666.7. But those at the Ayrahare Deep use Ayrahare

chire cattle?—Over 40,000 samples were taken, and in each case the needstry solids were above the standard.

1000, Yes, but in the noming the fate were connderedly below 110—Yes.
1000. There was a second can when the percentage of fee in the meaning and overing was 290 at 100 reproductly, and there the non-fatly solds were also with the contract of the contract of the recolleshed was apparent that was proposed to the consecution of the contract of the contract of the contract of the conposition of the contract of the conposition of the contract of the conposition of the contract of the contract of the consecs are followed:

1000. These experiments were carried out for three year, and with the same results?—They were sarried out by two different sowners, one was fample, such was Carrino, see we have bod in North Doblite. 1004. Mr. O'Blanc.—I think when you were sirring.

was Garma, one we have had in North Dublie.

1091. Mr. O'Birms.—I think when you were giving
your evidence before, you said the time of millering
was between 6 and 7 a.m. 5—Yes.

1092.—And that in the effermion it is 8 yam., or 2
yam.?—I think that is when must people milk.

### Sir CHARLES CAMERON. - 8th December, 1921.

in Duhlin than in Loods, and therefore we rather a nerin we have the milk analyzed every day, and we in Dullin than in Leods, and therefore we ratter pre-sume that the milk supply at the menting would show a large precading of fart—Yea.

1994. Mr. Convinca.—These experiments were de-signed to test that, and it was found that when the multing vested but little there we compre-tively little difference, but as you made a change be-thereby the property of the contract of the confind a meriod variation in the results between the morning and the evening milk. Str Change Campson,-Do you find any difficulty in

tween periode the richer the milk was in the evening and the poorer the milk was in the morning?-Well, and the poorer one man was in the monage of the my experience in their when generate milk falls below the legal standard it is more likely to arise from deficiency of the fate than from deficiency of the solids, and I think there is often granine milk scattaring less than 3 per cent, of fat, I said so before this, 1093, Well, in the Leeds experiment you had make taken for three years of a bord of twenty cows, where the milk was all granines.—What kind of fars, wen pi-

1000, Yes?-It is strange that those experiments books differ from shouseasts of against all over 1097. The fact is that the experiments that have here published were made on cuttle that were milled at unform periods. It is altogether abnormal to milk

at unform periods. It is altogether shoremal to milk over at two victor in the afternoon and two o'clock in the the meeting?—Well, you should get the hest entile for the perticular purpose. I think it is no excuss that there should be a parterolar quality of sows and poor quality of payings. 1098. But you have got to use the cown of the country?—But you can supplement their feeding.

1600. But these were well fed?-You see, the denser of fixing a low standard is that the tendency 1100. Mr. Camrana.—But, fortunately, we always have the non-fatty solline so a subgranel?—But I do think something ought to be done so that the great excess of one also of constituents in the ordin should excess of one cases or communicate as one must assess compensate for some deficiency in the other. I do he lieve genuine milk is aften deficient in fats, and often her a great causes of non-fatty schize. I have found that. I have found a great causes of fats. I think I mentioned the other day milk conteming over 18 per gent. of solide, yet, if I went by the otsarderd had down,

1101. The Cramoux,-That is exactly what you wish

Mr. CANTRELL.—The point is, that there may be danger, and I know perfectly well that there are many fermers who fear to be put in a false position through ferrores who may no be put an a more promotion on the first own. I know one pendleman to Co. Dablin who would like to go into the milk tende, but he would not like to be put in a false position of having it said that he had added water to him milk. It prosecuted for adding water, even if the fate are really under 3 per cent. I will mention a case of milk sent to Droghada Union. It was very often examined by me. prognant tribus. It was very often examined by me, and very often found to be adulterated according to standard—very often; and they then fixed a stendard of quality for the milk, but they fixed it is yest can per cent, higher with regird to tool solids, and one-half per cent, higher with regird to tool solids, and one-half per migher was regard to total some, and one-hear per-with regard to each of the other two, fats and the non-folly solids. I have been told by the persons who contracted for the milk—they solvally came up and explained matters—that they secondly durie up and exposures matters—max they found with their ordinary cows they could not get up to the standard, and they had to get Jessey said Abler-ncy cover, whose milk was very rich, to make up for

1H0. Mr. O'Bates,-In that case were the cover milked at the same nort of hours 1-4 suppose the usual time in the morning—they are protty early in the 1908. Have you had any experience with some that are milked three times in the day?—No.

1104. Did you have any experimente? Mr. Cascourtz.-Not in this country. It tends to

miferently in the mall. The trouble only arises in the critics, where people ask to have their milk delivered at 4 or 5 o'shoot in the evaning. Ferners are compelled to milk their cows at an unmatural boye, and then in some cases the milk fulls below 3 p.s. In Gian

1165. Mr. Canvanza.—No; and I would to get from

than the standard and others less, but the average quality would be up to the standard, so a rule, in the herd. A great many people have hat two or three cows, and they may be of poor quality.

1106. The ORASSIAN,-And no cognisance would be taken, if a prosecution were instituted, by a pressing authority as to the extent of the herd, whether it con-sisted of 3 or 50 or 50 coves. So that if, is a small herd of 3 or 5 open, the owner was undortunate enough to of 3 of 5 offs, we owner was uncommisse enough to have two yielding poor milk, and if their milk was sampled and analysed, in all probability he might be fixed as a person who was adulterating milk?—He might. I have known invisance of the milk of a sindle might.

1907. I really think that is a hardship, and that some effort ought to be made to deal with it, became obviously a condition of that kind must measurily restrict the sele of milk?—I frequently entries my own pulganest in certifying for srittles supposed to be adult pulganest in certifying for srittles supposed to be adult tested. For example, in many cases where I find a very large amount of non-fatty solids and a very small amount, ecompassitively, of fats, and where the total amount, comparatively, or most, som where the scena solids often go up to 18 per cent, which is higher than the average quantity found in pumine milk, I never give a certificate in such case, though I might do so. 1108. I quite understand that, has I would like to

point out that although that has been your practice, the position you yourself occupy embles you to deal with possible you yourselt vecupy timbers you so that was this matter on your own judgment, whenes a year's practitioner, or one loss arre of his position, might hom-take to do what you fact justified in doing?—Yes, that shows the importance of appointing experienced pre-1809. I admit that, but at the same time it is not seable— ?—You must begin sometime or other.

1150. Always to find people with the amount of experience you have had; to revise the conditions under which milk is standard. seed, which will sedequare the public health and the public interest, without imposing restrictions on pro-duces this must increase the cost of the commodity discres that more increase the cost of the commonny or restrict the number of those who are singinged in the

tender—Certainly.

III. Mr. Winners—I hand it supported that a pos-cile way out of the silficulty of the steadard would be that no proceeding should be unless it would have a mired sample of the morning and evening mile and a mired sample of the morning and evening mile 1112. Would have a state of the first the difficulties—In-dies not meet a state of mile the the difficulties—In-dies not meet a state of mile morning and proceedings.

does not meet a state of affairs which actually exists.

Will sellers don't keep over the moraling mails in order Milesetters con a scep over the second public sort to saix is with the evening milk, and keep the evening milk to mix with seath morning e milk.

1135. No; but the suggestion is to take a sample faces the street, the sample on which you proceed !-1.114. To take a except from a man in the morning and from the same man in the evening?—Well, I do

thet, 1116. I don't think you quite understand my point; it is preposed that the impacting office should take from the deligrams a sample is the meaning and a sample in the exceling, mor them topolior, and prose-series. exte only when the joint sample growd to be below standord?—Yes.

standard's. You.

1176. World is he issuible?—It should be feasible.

1177. Beaucombb n. Faur coupel.

1187. Beaucombb n. Faur coupel.

1188. Mr. CAMPERLE.—But a dishipatly arises in the case of a person celling in a chop. It along not follow that the deby. It along not follow that the distribution will there twize a day.

The CHAPMEN.-I see difficulties: the cowlesseer

and eremany?—Not increasing, but as a rule they do: 1110. Where large quantities are used, sometimes there is only eas delivery in the day, and if their loop-considerably believe the standown, there would be no opportunity of equaliting matters by testing a scopple of the insted counting and evening collision. Wells, where there is only one delivery, I suppose it must in-clude the merring and evening milk.

1120. Not necessarily; because our comers might be supplied at different periods of the day by the same producer.—Would not that he with the mile of the one

1121. What I suggest a this, that it is possible, I don't say probable, that the milt purvoyer may deliver milt in one distinct in the monaing and in another in the evaning?—Lee, that may be; I don't think it is the evaning?—Lee, that may be; I don't think it

is cattal.
1122. Is st possible?—It is possible The Changean,-And at would create a difficulty if Mr. Walson's supposition was carried into officet.

1188. Mr. O'Brins,—Is si not a fact, as far as you know, that about bure most of the dairy herds supplying milk for consumption are not aged, ever, and that on the whole the deleymen favour cows which see 7 or 8 or 9 years old, thinking they give a larger supply though of poorer suchly, seeing that they sell the milk

best milk, and with richest quality. That was my ex-perions of a great number of samples.

1124. My experience in Lamenck is that they always these, my experience in Limenes in this they aways elections to have a certain percentage of old cove, cover that are supposed to give a large quantity of mill; thus was before the establishment of delatics, and they did not mind the quality as long as they got the quantity. Mr. CLAPRELL.—Set Chalces says that the older cown at Glassowin gave the better milk, but he did not any

Sir CHARLES CAMMON. -- Oh, they were elderly

1125. Mr. Carrown. —Not very old. As a matter of fact, there are young cows and older cows, and I am quite more that what Sir Charles Cameren and about the old cows is right. We den't have very old cows?— Ob, no.

1126. Mr. O'Bezze, I know from practical experiezze that when a cow has got a lift old in the country.

A second in the town

because she will have a pretty large supply of milk. The people boy these cows superailly for the winter milk, with the idea that they will hill them off in the milk, with the men time they was fill them we me see spring, and therefore you will get a large supply of milk in many towns from even that are almost in their last days. This may leaf to a lower standard of milk. I don't know if their as e short Duhlm. Would you

I don't know if their is so shout Dankin. We not you go go?

The Camenax—I am rather inclined to think the Dankin confessor like to by own with planty of vigour, especially those which would be good producent. Of course, they always codeward to allow it own with very free conformation. There are other characteristic belowscaled of our with they latter infrates. ission, independent of age, which they believe indicate good milk producers. They don't like only first-year good milk producers. They don't like only first-ye cows, cowe that as a rule yield a limited supply. cover, cover time as a run year a limited supper. I mean they den't boy hotteys.

Wirmana.—From Sequiries I made in England, I found that what is done in town desiries—I don't know

about the country district—It that they hay even and keep them in the cowhouse, summer and winter, until they begin to fall off in the quantity of the milk, with-out regard to whether the milk increased in smallly. When they begin to give unsatisfactory quantities of milk they are disposed of at once, 1127. Mr. Canrucz, ... In calculating the

matter what the total solids are, it is calculated on the metter what the feed while are, it is calculated on the \$6 per cost, of cone-firty solids, not on the tenis solids. 138, The water is always calculated on the non-facts solids—and the solid in the partial of this post of the solid in the solid partial of the may be. So that it was the partial only be an extremely pole point, constraint is and if per cost, of solids, but if deficient in turn the notification of solids, but if deficient in turn the notification of the solids, but if deficient in turn the notification of the solid in solids. regarded as abilitation, or at least such presumptions would be mised. For the mason I have already given, I never in a case of their lind give a cartifrate, because I think the purchaser gets, in that, hetter value than he expected. But it is my own in dividual action, and non-legal action.

1129. Do you think that the analysis have a uniform system in estimating the percentage of water?— It differs from the English-Somerset House-method I state what is the amount of water added to the milk; that is, if a gallon of water as added-to take an ex-treme mass—if a railon of water were added to a gallon of milk. I say that that was milk to which 100 per cent of its weight of woter had been added, making 200 parts out of 100. Feet in the negal farm of outflights state that the milk contained 50 per cent, of added

42

1130. The CRAMMAN.-I am quite familiar with the the same thing. I think mine is the more logical way. The offense consists of adding constiting that was not in the milk originally. When I say you add 100 per in the milk enginely. When I say you old 100 per cent, to the milk, this beew what it revely constitut of whan I say 100 per cent, was abbid, you have a better to the per cent, was abbid, you have a better to the control of the control of the control better how bettermilk could be abbitected with 100 per cent, of where A. press obtained none mild on me, and very lang, and the proper Let could be abbid to the control of the control of the could be abbid 100,000 per cent, and the could be abbid 100,000 per cent, in the control of the could be abbid to the could be abbid to the could be abbid 100,000 per cent, in the could be abbid to the abbid to the could be abbid to the could be abbid. adulterating it with 200 per cent, of water.

1331. Mr. CAMPERIZ, -There is snother way of stating it, by saying that it is deficient in fat by a certain per cent - Yes.

1122. Or defecent in solids?-Both, sometimes. 1183. That would be a less offensive form to a gentle nan who as a little tender in his feelings?-It would, 1184. Suppose you stated that this gulk is definent to much per cent, of solids, so much per cent, of

1183. Pate?—You; rapposing the mail: is definent 2.5 per cent, of fate, then the form of certificate would be that the milk had been deprived of 50 per cent. of 1136. Therefore, would it not be possible to say it

intsined 50 per cent, less than the standard?-It could be put in that way. 1137. Don't you think that that would be a nicer way?—Yes, it would be a nicer way of putting it. It would not hart their feelings so much.

138, A gentleman from Wexford I saw the other with water. I do not think he would have felt so sowe If it had been put the way I reggest-defenced in a cer-tain per cent. of its isto?—I assure you it always gave me great pain to have to give a certificate of adultera-tion. I know some poorle think we service of tion. I know some people think we repose when we have to discover facility of that kind. We don't.

1109. I speak after having conversations with several persons, that to my that milk is deficient in fair is a totally different thing to soying if contained 10 per cent, of added water?—There see the ways of doing unpleasant things. I heavy of a judge who sentenced a prisoner to six months in prison in such a way that the prisoner thought as little of it as if he had been let free by another kind of judge. 1140. I am very much obliged to you.-I would be disposed to think 2'8 per cent, of fata would not be un-

1141. But to stick to the standard for non-fair?

—Yes, and to the total solute. And I do my that it may be well worth white considering whether allow. since should be made if there were a great excess of fats, because sometimes I have found it a very great difficulty to decide whether there is more than the aver-age quantity, to my nothing of the logal quantity, while yet there is a deficiency of the non-fatty acids. would prose that rather upon your attention

1142. The Countries.—And this night be due to a elegametance over which the pureyer or producer of milk has absolutely no control?—Absolutely no control? is would leek that the milk was pure if it contained in bege excess of one class of constituents though there might be a deficiency race or less in the other class. Beally I would like you to take that maker into one

Sir CRALLES CAMERON.-Sth December, 1911.

1148, Dr. Moseagap,---Woold not 3'8 of fat be a your low standard of fat, accine that fat is the principal it contains 28 per cent of fate than if it contains only 8.0 per cent, of nec-lably solids. 2.8 per cent, is a low

shorders, of course.

1144. Mr. Caseronn.—But the fat is a variable forto 9—Yes. I think some allowance chould be made
to 1—Yes. I think some allowance chould be made with regard to the fate, provided the total solids were

1145. You would not take the non-fatty solids slone? No. You prefer the total?—Yes, the total solids. 1146. Dr. Mccounan.—Some of the books put the total solids at 1233—1 should say that milk should contain 11-5 per cent. of total solids. 1146. Minimum.—Yes, and if the fuls came to 28,

but the total solids were up to 11-5, I would not give

a certificate. 1149. Mr. Cantrani. There would be no prosecu-

1148. But CAMPERLE.—there would be possible for mile of the proceedings.

1160. But you would not consider it very good mile?
I would not. I would like to get better mile myself.

1151. B milits be due to the cow?—The.

1152. Dr. MONERAL.—Do you regard the tubercu. lin test as absolutely accurate as applied to cowa9-1 have beard of cases where it was not; it is brought have beard or cases where it was not; as in crouper about rather in him way, that inflammatory appropria set in on the application of the test. I have read of this; it is, of course, more a matter for the volcement surgeon. I have heard of a case in which the applicasurgeon. I have heard of a case in which the tion of the test set up some inflammatory action.

er, I am speaking only of what I have read. tem?-No. 1154. Dr. Moonman.—From a health point of view, what would you think of the mile of an animal that did re-set, but which did not show diffuse tuberrulests, or cow, not to use the milk, but really I think my answer should not be taken as being worth vary much.

abould not be taken as being worth very muan.

1156. From the scaentific point of view, would there
be any possibility of rendering that ow immune by
further more detect by telegratin?—I think you ought further moreometric by ware to not the veterinery surgeon.

M. Cawrenti, You were for

1838. Your colleague, Dr. McWerney, told us that he tested them, and he found that about 40 or 50 per cent, re-setted? You don't think, notwithstanding that, In other words, a oow might re-act to teberculin , and still the ment might be whol some?-I would not condemn the carcass of a cow if there were some slight affection of the hours. And a cow may re-set to tubercolin and still sometimes the introduction of any material into the

circulation produces inflammatory disturbance; a rise in temperature may be coused, even by water. 1161. Distilled water?—Distilled water. Distilled water?—Distilled water.
 Dr. Mousman.—I would like to get informa-about the Widal test?—2 agree with Professor 1162. Dr. tion about the Wides reserved agree with Powerses, McWernery, it is a most important question. I quite agree with what he osid. In fact, I proposed that my, self, and published its a long time ago. It would be a most desirable thing to apply the test to those angaged in militing over and weeding milk, and it is such a

1155. It every person who re-arts to the Widal test a carrier of typhoid?—You, the obserces are that he is. 1164. What about soldiers who were inordated with properly propered screen, say Professor Wright's ?-

That might prevent a man developing it himself, but 1165. Does he re-set to the Widal tost?-Yes, even if inocelated with the enti-toxin. He ought not to deal with milk. Several cases came under my own

observation in regard to typhoid carriers, and I think they are real energies of society. There are not only typhoid and dightheria carriers, but from some favoriostices I have been making recently, I think there may even be typhus carriers. 1166. Would a person re-not to a para-typhoid?-

1167. Mr. Wilson,-Dr. McWenney suggested that scording to the latest evidence 5 per cent, of pattents Scoted with typhoid prohably became carriers of the affected 1168. He was not able to give us any figures at the time about the incidence of typhoid among the population. Roughly, what is the figure per thousand?— Well, take Dollin, which at one time had, with one

exception, the highest enteric favor death rate; some of about \$00,000, man it may static down to ave comme two or three years ago, while last year it is only \$2. Well, even if you take \$0 deaths in a population of \$30,000, and multiply that \$0 by 10, you get the total number of cases of enter's force, because the mortality in onterse fever is shout one in 10-every tenth person attacked by it dies.

person attacken oy is unin.

1169. Then you say there are about 400 cases of en-teric fever in Dublin in a year in a population of 500,0007—Yea; that is what it has gone to with a death roll of 90 in Dublin.

1170. Professor McWeensy's figure was that about 5 per earth of these cases became typhold carriers; that as to say, there are about 30 individuals, more or less.

is to say, there are money as married and and get con-who become carriers every year?—We can't get con-rect statistics. You would have to examine the whole of the people who had enteric fover for a year and see. 1171. On the swallshie evidence at its suggested that there are vestly shoot 20 people in Dublin who under this test would be forbidden to take any part in the

till ten would be servered to take the pass of dairy incide?—Yes,

1172. The Cusumax.—That is, you bring it out, in
fact, that a very small percentage of the population
might find their employment interfered with?—fa would not be an unreasonable confident to put on people reading and engaged in the production of milks to have them subjected to this test, in view of the fact that so live of thom are affected, 1170. If recommendations were made in regard to it,

1173. If econtementalisation were made in request to it, and it was supported we were going to instellant with the econystem of a number of men congaged in the support of the contemporary of the contempo presumine to fake?—My idea is that it would not us, especially as the charge would be remote of our of the 40 people being affected. According to the doctome of probabilities it would be a very small chance, but I would like to say this for a regional, that in the very limited number of cases in whale had this seek applied, in the case of dairy people they showed no distraination to submit to it. no hesitation whatever about it, no complaint about

no hedisatom whatever about it, no compilatin about 6. B is generally a peiniois operation.

1171. Prof. Marram.—Th is not a formidable thing at allow-No.

1171. Dr. Mosuman.—Do you bold that if a man retects to the Wilst best after three months he is,
threaden, a carrier all his life.—Not all his life.

1176. Little has one carry three germs all his life.

1176. Little has one carry three germs all his life. because the most of what we know is derived from the stillarly segrena—4 is they, in fact, that worked up this 'to may hold the germs for six or seven years. 1177. Prof. Merrau.—To put it technosity, so long as a man carries in his blood immune bodies to typhoid be will reach to the Wall test?—He does. That is quite apart from the fact whether he has een passing typhoid hadlly. A person mostying will

been passing typhoid hacilli. A person receiving will to act for a certain length of time; his re-action aredually disappears, till it disappears altogether. A and meappears, till it disappears altogether. A person, therefore, who is suffering from typhoid in a latest or active condition will re-not, and these meractive condition will re-not, and those persons who have been incoulated by Wright's vaccine will also re-not, but that disappears eventually.

1178. Ser Jone Lineaums.—The eserier will always

re-act; other people who may not he carriers will reset too?—Yes. 1979, Dr. Mosaman,—Does the person who re-acts siways exercic typhoid bacili? Sir Jone Lestaness.—No.

Dr. Moorman.—He might not be dangerous though Prof. Merran. -- He may not be dangeroon to-day, and he might be to-morrow. Dr. Moonenan.-He may currete the healfit to-day

Prof. MEYEAR - Year

Mr. Asusew Warson, M.R.C.V.S., excepined. 1990. The CHARMAN,-You are a coalified veterinary and at present hold an appointment under the

1181. As Velerinary Inspector 1—Yes. 1182. How many years have you been in that post-1182. How many :

1865, And you have under you certain officers to seems you in carrying cut the duties apperishing to your office?-Yes. 1184. Are they professional or non-professional gentle-

IISS. Are ibey subjected to may examination in order to test their qualifications to except out the duties entered to them.—Yes; they pass the examination of the Saminay English or Royal Institute of Publish

He alth-Health.

1186. This is not regarded as requiring estentials knowledge of diames, or the conflictors under which have a first tending that to a minor exdisease are guarated?—It implies that to a minor ex-tent, and it is recognised as a standard examination by the Local Government Board. 1887. Here you experienced any difficulty in the reformance of your duties owing to the fact that those

frequently by being afruid to take action. They don't know whether they should allow certain things, whereas if they were all professional men they would be able 1188. What I wanted to click from you was, in the administration of those Orders as efficient when carried out by a non-perfectional man as they would be if earlied out by pecfessional men?—You would naturally expect me to back up the professional man, but I must cortainly say that the shall behave woulderfully wall they are fastly efficient. Of coverie, they have many years' expectation under the Christian Courters and my.

 You will quite understand I am not making ty reflection on them?—I understand that. any reflection on them?—I understand that.

1990. I merchy with to delicit what the nature of the assistance given you is?—I don't which that I have any remans for that farting allowing they are layeren, but then they have a number of years' experience.

1991. I quite understand, and I take it that year view in that the public addity, and it was it that year view in that the public addity and the public betall are not in the way we remarked by is supposed by the second of their not being preferenced men, provided they have a preferenced man to consult and nonely with 2. That is perfectly correct.

1192. The number of cover in your nest, I below, he decreased in recent years—[18, 8, 8 is a flowtaking her decreased in recent years—[18, 8, 8 is a flowtaking her decreased in recent years—[18, 18].

number, and it is decreasing.

1193. Would you be able to tell me the number of 1195. Would you me asse to tell me the number of siry herds that exist in Dublin under the manipipal sibority. Of course, you won't include the town-aps in that?—No. That means the oxionical boundairy agents been cause, you won't include the bown-authority. Of course, you won't include the bown-ships in thet?—No. That means the extended boun-daries of the city. The number of dairy yards in the

1894. And the number of court-The number of court in 6,941. 1195. And the number of shope?—The number of shope and districe in 500.

1196. Could you also give figures showing the number of purveyors of milk residing within the city? Tunderstand you refer in your drast statement to those who sand in milk by road or rail?-Yes, 50. 1197. What moune have you now of assertaining that number; are they obliged to register?—Yes, all vendors of relik in the othy are supposed to register. The means we take to make certain that they are registered are those; there are certain main roads or afterior coming

anto the city, and at certain periods of the year we pair mapeatons out on the hidges, and arrons whom we know is not registered in taken to book, if they are sell-ing nulls. We possesse them for not being registered. 1998. In the penalty network—No; generally a nominal penalty of  $S_1$ .

1199. In it refficient to course that the preveyors of with settlements. milk will register in all cases? I don't think so. milk wer register in an oness?—I don't make so, inc magnitudes take a very locarit view of many cases of that description. I think if they enforced a higher possibly it would tend to the better carrying out of

Orders. 1200, All versions of milk are required to be regin tered somewhere; would you be in favour of extending the registration to Becases?—I should be very strongly

1201. Would you kindly give the resource?—The Beence has a personal claim. Registration is more general and is not such a personal motion. I think I may my that in a great number of instances, even in the rember of them would not be keened. In desline with an article like wilk it is of the greatest possible impor-tance that a system of licensing should be adopted. I

think a licence to deal in malk and mark and upon in-portant articles of died in very countial.

1992. How far do you thank the change you suggest would limit the numbers of those who are engaged at the tude?—Well, roughly speaking, I suppose it would

the tatels—Will, Soughly speaking, I suppose is would estimated 50 pc cant, of those who are at present re-gistered; of course, that is very roughly. 1500 I want is greatedly, an approximate nancer, I 1500 I want is greatedly, an approximate nancer, I will be a supposed to the condition of licenses, if it should be established, what conditions of licenses, if it should be established, what conditions would you keep care—I which the man should be a good class of calcan. In the inflari-cellar whether for e.g., in the property of the condi-cate whether the e.g. in tercolor—Con, excelly.

dusis applying for the instronce?—Yes, exactly, 1935. If his physical condition and training (if he had say) did not suggest that he was likely to be a careful a licenses III would, and no granting a license, his social condition ought to be taken into commitmation, because I think that a man who is socially below pay, or whose associates are, and who is known to associate with dirty people, such a man should not be licensed. 1206. Of course, it is rather a well-known fact that a libert of course, it is course a well-silven and a libert percentage of those engaged in the trade have undoubtedly commenced their commercial purposes in a unskenheldly econômenced their econômerial purrellis in a very result "my"—Not so mout nowndays. Thus fast obtained scene fifteen or benuty years ago. These are a number of people getting into the inside on who have not begon on the lower range of the indice, but have not begon on the lower range of the indice, but have nown noted in large other from outside; no that have is a tendromy, a way conditional; tendency, towards the responsances of the result confirmed of the modern responsances of the results confirmed of the modern

1207. In it not a fact that numbers of infuntrious non who have been following the pursuit, my, of show-dores with shipping companies, men who have been sorts with dailying companies, man who have been engaged as earliers with large carrying companies, and offices of that type, have embarked in the dairy business in a small way at the beginning?—That is true, but compared with the number connected with the treds, if think the preventings in companies well.

1208. What I want to get from you is thin: do you think that the trade as now in more restricted hands, that the number of those who are pursuying milk is reduced, although the output of the milk to not veduced. mean that those sugaged in the business are keeping I mean this base sugares in the continue are acquired larger hards?—No, on the contrary. I suppose, com-pared with thirty years ago, the size of herds in Dub-lin is enormously reduced. When I began my profeseico, the number of delrymen in Dimin was says, to 150 head of cattle, milch cows, was very considershie. Now, I suppose one-fourth would represent the number, and for the majority of men the member of coses is 40, 50, and 60. Twenty-five years ago, 100 and

1209. Neather was it uncommon to find a considerable 1210. Even now?-Even now.

1210. Even now r—noven now.

1211. Do you think that the number of people onused in the trade with small herds in Dublin is

definitioning or increasing.—Increasing.

1212. You have given us your view in the first instance with regard to the applicant; now what other condition would you impose with regard to the premises in whath the costs would be ket?—I think the orem you ought to be regutered. see cought to be regentered.

1215. Registered or licroscol; would you extend the
licence to the individual or premises?—The locence
should apply to the individual and registeriou to the
premises. I think we ought to have power to refuse
and the yards and the currentings of such establishment
and the yards and the currentings of such establishment of above. ments are fit and proper for the establishment of a darry-

Mr. Annua Warson, Sth December, 1911.

224.1. I take it their not slove sould you unpose that combine, but you would also mant that the premises shorted not be to close peasantly to other coloibalments wherein certain trades see certain on?—That is as. That is carbonbodly imperiorit. We ought to love would be recombined, owing to the companions, to be storage or production of rails. 1216. How other, in the pratrial of your duffers, speak.

ing generally, have you found it necessary to confirm the consistence under whish cover see housed and kept?

—A number of times I have objected to the site of the yard.

yard. Yes bold no won have no authority to interfer with the nit. What I went to get from you us, what have you been able to accomplish under the powers already confirmed upon you to several better busing and keeping of the cessed. "Defer our powers we have increased the variabilities and the lightling, and the collespace of sevendest, and although we have ready no legal profiter of the dear wend."

created for ventrement use apprint, will not create property, we per sider as to make a provision for the section of the data years.

LIFF, then is shown in the section of the section of the sharp years.

LIFF, then is sharp which we have been continued—

LIFF, the property of the section o

eventually, people clay our directions for the arrangement of dany yards; they flush up usually by being a concerting party. 1259, I want to get a general view; do you find those people obtainst in resisting any attempt made to im-

1200. I want to get a general year; do you find those people obtained in resisting any attempt made to improve the conditions under which milk is produced?—
No. I don't. On the contrary take them all condition, they are very good critaten in that respect.
1201. You can say they are a reasonable body of men?

1400 Annual Property of the condition and the health of the court, to you offer exemine the olders of the lessest of the court, to you offer exemine the olders of the lessest of the court of the court

pose of securishing how far those estimate are producing milk from hap that are sound charactly—1 make my supported in irregular parts of the whole district. I take no operal line. I take the north, south, west, cuts, and consequently, by taking it that way, it gives me a very good idea of the general condition of the deiry yards.

E24. Speaking paramily, what has been the result of these seminoses —I must certainly say that since we began first more and a great improvement. 1222, The results of the first sea stiffered cover has been distributed —Yes, and the seminose of the side of the seminose of the seminose of the side of the seminose of the se

1999. You mean wright hasourt—Yee, small sheemer ceither of the sales or the toy of the older. During the least ten yees the number of those has been diminished to the year sales of the old in the tener diminished everyal height. On the sales were the sales of the cocoult be give myself a little order for it.—I have increased the property of the contract of the cotest of the contract of the contract of the cotest of the contract of the contract of the cotest of the contract of the contract of the cotest of the contract of the contract of the cotest of the contract of the contract of the cotest of the contract of the contract of the cotest of the contract of the contract of the cotest of the contract of the contract of the cotest of the contract of the contract of the cotest of the contract of the contract of the cotest of the contract of the cotest of the contract of th

1202. I have no death that you were talking to use when were propiled egisted this butter two you rated your theory with regard to this matter. Not above were they projubbed squared it, but deep thought I was morbing them, and up to the present day there are a number of hig owners who, in spire of all I say, attempts these bods to the best wash out the gradus. They robuse to believe it is the result of incenhilise

1225. What number of own, or what presenting, do not falled you be discovered by these seminations enforcing from inherence under "dependent seaso" and the semination of the

evoluted, which curren do you follow 1—The certical adopt when I unspect so toller is to belie a simple of the adopt when I unspect with the intervent of the secretical and hereing them the sample, I hard it to Sir Charles Current a blochestery and avail results. 1202. Which are sent to you?—Withou various times. 1203. But, at all events, wrifetently reguly to enable you to deal with the cover under suspector?—If the product of the control of the contr

you to deal with the cover under surplicach?—If the results don't come soon, I have to go to the laboratory and kink up a cover myself.

1894. Suppose you discover a case which this harteriological examination confines, not incredy a case of useprices, but one of actual disease, what course do you follow then?—I write a contribute recommending the

Fails with — I write a correction received an animal Prails Health Constitute to have each an animal 1535. And companishing paid to the owner of the teast?—The, compensation paid. If 1206. I understand that the compensation paid in I minist of a 610?—That is so ; is has been the withput in

dispote.

1987. Do you think, speaking generally again, that the limit affords a reasonable subgrand to the property of the cowkeeper—No. I do not, nor for the public health interests. I think it ought to be bagger and ought to be more generous.

1988. I put this question to another witness; I don't wood repesting it: Does the fact that you are limited.

50 mind reposing its: 1000 sen uses man you be assessed by large senses the congruentials to the open at at 215 mind and a sense the congruentials to the open at at 216 mind which, if you were prematited to give the full water, you would not be stated to industried—I would warry more more quickly in two prefer, if I had the power, to give full companies uses, and I would deal your more more quickly in the contract of the property of the contract of the property of the contract the

1230. What is 39'—The point is this 'I must have a
hatcheslegast's certificate that he has food talkends
tastill present in the acopte! Laws collected.

1280. Before you can order also giver?—The tuberde
beelill must be certified to be present.

141. Sir Ferr Kerysover—You don't meet with
other beculfied?—I desired upon the haderlegast's

enimal; for under the Deiries and Gombols Order we are published by no such closes are very surface the many published by no such closes are very surface the stay of the other exhabited dissesses, that the velocitories arguests's exclusion such its field out brinding. The greeds tubercritis dissesses of the under in, stort if we don't make it create that the benefits is present, and other than the contain that the notifies is present, and think to be tubercrite dissesses of the under in, stort if we don't make it create that the the milks is present, and think to be tubercrites most time, and if upon houghter it is found to be measible, and if upon houghter it is found to be measible, and only the confer I, or the representative of the Corporation, would in halls the action, and the Corporation might be

E183. For having them wrought alonghtured?—Yes.

E183. For having them wrought alonghtured?—Yes.

For the fit was clear fivel on a sound but the symptoms

poil swifers it was found to be masteria but not subor
vales, an notion would like.

1248. The CREMISSE.—We all From this tit postworders examination does not always reveal its

confidence that the symptoms seem to indicate?—In

conditions that the symptoms seem to indicate.—In dealing with any distance of the order it is easy to see markles in a very difficult that it is to become markles in a very difficult through that it is to be could satisfie in a very difficult through the state of the same of the s

1244. If this power was conferred, you think you would be able to make more efficient dispessions of these seinskelf—I. do. I Holix, moreover, that the velocitary imposite cought to be probated by law if he velocitary imposite cought to be probated by law if he velocitary imposite cought to be probated by law if he velocitary imposite even to be constructed by the control from a best I deink the Velocitary Suppose is dum a good day to the community by latinizating from the hereda.

1245. With regard to suspected cases where, for example, besteriological examination of the milk would not support your belief that these was toberto the under, do you take any action with regard to the suspected beauty-Yea; my instructions, and I carry than out, are thet the impector shall keep such an animal under observation; and when he pays a visit during the milking where such a over is visiter observation he has orders to see to the destruction of the secretion, and he destroys it for he

2246. But supposing, for a moment, that en salmel is suspected and you are unable, owing to the restric-tions imposed by the Order and the law, to order the stangher, do you ever suggest to the owner of the dury that it might be a wise thing for him to get red of that animal?—I do frequently. I often recommend that the animal should be interned of and termed into

heef.

1247. Is that often done?—I must say that they
meet me very famly in that. Of course, you can
readily understand that in some cause where you have such a chaese existing there is difficulty an getting condition on the amunal 1248. Prof. Marrant.-There is always a risk, too?

1249. The CHARMEN.—Are they over sold out of the dulry 5—Not that we know of. I oun't say it is altogether a matter of varies on the part of the Dublin deleveran. We have not sufficient law to find with these matters as in other places, and the dairy-men know this. When an autual occurs within our powers we get, and they try to fetten the animal and

1850. We had snother gentlemen dealing with another subscrity who informed us that it was his comtem, whenever an animal excited his suspection without his being able to say definitely if it was suffering

1251. He was dealing with a particular area over which he would be responsible, end the position was that when he cent it out of his sees he was at least protecting the subcreate he was paid to protect, how-ever he might injure the general public?—I don't think it a commendable action. A man should be a ottion of the whole country, not of a parish. 1202. I meetly mentioned the fact to secretain briber you had a similar experience. With report

whether you had a smiller experience, with regar-te the food those commits get, do you think they are gazeworky fed for the purpose of producing milk of a good quantity rather than a good quantity—I dan't; I thank the Leeding of the Dublis darry owe is very high. 1208. They are consenseally and intelligently fed? 1993. They are concentrally and intelligently feld—Test and for this research-that the Debhan sidery man, generally appelling, only keeps his one during one seasons will relik; be than festers her off. During the whole of the millimg paried he has his eye on the main chance, for at the expectation of the season of only he weath to fatter them on soon or possible into

whether you

1254. So that he supplies the snimel with the 1294. So that he repeated as the food likely to in-disab-forming food, as well as the food likely to in-crease the socretion of milk and the quelity of milk?— I don't say to increase the quantity, but certainly to

1255. Yes don't believe that the fermented fools with which these animals are sometimes fed, weak and grains and such things, see in any degree injuries. to their bealth?—I would not go so far as that, he-owers I think the experience of those who have made degeneration of the liver, and also with ledney trouble. \$250. In that trouble likely to affect the secretion of milk?—Any divergences from the normal are all bound to affect the secretion of rolls.

7. At all events, they give came for anxiety?— Whotever affects the liver is bound to interfere with digestion, and an impaired digestion in brund to

1258. You told us they only milk for one period?-1250. So that they never go over the one period?-1200. So this tray navar go over too ver pearence— Very faw; that system is peculiar in Dublin. 1200. As a result, I take it that the dairy cown of Dublin are usually steery, vigorous animals?—Yes, and the Dublin datay hoyer usually buys a cow on the

1991. And that is about the period when they are shore prime?—The best for milling.

1992. Turning from the spirml itself to those in sharpe of it, what have you been able to accomplish with regard to ensuring cleanliness in the milking of tsined?-We have had to proceeds a number of the darry proprietors from time to time for uniform comes with dirty uniform and to present the attendants for milking with dirty analy. We insust by a byther on the removal of screen before milking, and if that in not done we have repeatedly presented the owner and

1988. Have the authorities before whom these probut 5s, or 10s, to an asternami in a dairy yand corns an atoencess were. But I think, taking its generally, that the paralize infasted lave been whelly make-quate for the offences. I don't think you will ever

1294. That will always be a question of dagree and opinion, but at the same time do you think you have ason to complain that in the existing condition of things penalties appear less drasts than they might Personally I have a very strong

aw on that point.

1203. I sincerely hope you have been able to effect
maximum bis increasement from that point of years certainly.

Yes; oscinally, 1986. How often would your subcedinates wait the darry-yestic of Dublin with the object of discovering distry-with of armin with the object to mecovering whether his continues had down with regard to clean-lines were heing closely observed?—Taking all round, every dairy yard as railed once a foreignt. 1157. By some officer?—Yes, 1158, Or your department?—They don't know what-

Signature of Defrace, Mr. Collins, would go in. 1999. And where you have reason to suspect that areleganess is present, I suppose your visits are more request?—Quife so. There are certain districts that frequent?-Quite so. are very much were then others, where certain dairy peoperators are very much worse then others, and those districts and properators olways call for special atten-

1270. Have you much resson to complain of cows being kept in closs proximity to other premises wherein dirty persons are curred on, such as the manufacture of artificial measures, or leader of their kind?—Well, I know a district where them is a manuscro minumbartore which eastern whose tells as a manufacture which eastern is good number of dairy yards; there is she snether hig firm following a bride known as gul-straping, and if you have several of those objectionable index in a district the sizuatphere, if I might be allowed to make use of a little rangeration, is so thick on occasions when trade is brisk that you might almost out it into sections. 1271. We have not much difficulty in assuming that

milk produced in surroundings such as you have da-sorthed would not be absolutely safe from the public bealth point of view?—No. 1972. And if the Beenes to which you have already tearred were required by law, you think it would be desirable to withhold those licenses from any person who kept a dailry in contiguity to offernive trades?

1279. Has it over been suggested that an overall 1279. Has it ever been suggested that an overall singht be used by those persons who are sugged in refilting cowe?—Yes; it is one of the provisions laid down in our by-laws that a cotton sensel; shall be

1274. In it in force 5-Yes. 1275 What is the possity for a breach of that by-law?—Up to 45 is the possity.

My. ANDREW WARROW.-Sth December, 1911.

47

1276. That is sufficiently destic?—Yes, if it was inflicted; I suppose the maximum pentity imposed by the magnifected for such as offence is about 6.

2277. Mr. CASPERLA.—Is it an overall or an apron?—An overall.

2217. Mr. GARTHER.—Is it an overall or an apron't
—An overall.

1238. The Channes.—That must pay periodic visite
to the hundry—The, and must be kept on the premiss, because otherwise the obtendant might take it
beans with him, and to a hone where there might be
steps indications disease, and thus the associet freed.

might become indeeded.

1250 Qurie so.—As a meetier of fact, three days ago I was examining some cows udders, and I found very excess fault with the condition of the attendant's emock. It would have been just se well in that instense if the militing had been done without the

emoch.

1360. I hope you took precessions to have it subposted to scap and water knahmen?—I did.

1281. Attention has been shreated to the fact that
in the summer period the cove of Dublin are largely
grand in the County of Dublin.—Ency are.

1924. Here you cryour offsare power to go into the country to issentine toucher what conditions these in change of the cores live, and the conditions toucher the conditions toucher the conditions toucher the condition of the conditions to the condition of the

possed with eigend to the imposition of the conditions which preved in the country similar to those you make in the repetition. The country similar to those you make in the eight "——We can't do it until the Local Government Board gives us permission.

1264. Prof. MENUM.—Voc commod go access the

and C. The Contract — Austral or witness bodd by the Contract of the Dalkin submitted to the Contract of the Dalkin submitted to the Contract of the Contract

Process means consumers, to respect us, Looss Government Board to authorise the Committee to make inspections of discrets in the subtribe of Dubhit and the constitution of Dubhit and the constitution (Ireland) Act of 1904.—It among the processor for the constant (Ireland) Act of 1904.—It among the processor for the constant (Ireland) Act of 1904.—It among the processor of the constant (Ireland) Act of 1904.—It among the processor of the constant (Ireland) Act of 1904.—It among the processor of the constant (Ireland) Act of 1904.—It among the processor of the constant (Ireland) Act of 1904.—It among the processor of the constant (Ireland) Act of 1904.

JBS, Mr. CONTERNA—They submoveding it is required to the content of the content o

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The 20095. This is not distinct to established condition of binary.—I consists it is established condition of binary.—I consists it very unable below 1298, Turning again, but we spely of sufficient of the condition of the condi

MME. By which noted-to-L bellow I can coprest in strying that there is a diversating entaility ceiting from the district that is somewhold with the consences on the contract of the contract of the contract of the boson for some years. On the other them, where extending the note some, for example, in the cent several by Entire Endowers, there was no treated quantity used in the Digital Order came to be endoced in the country district in these determines have ensured a popular male. 1999, Or send it to the city—Vers; not alone that, the they have produce it.

1236. So your belief is that the enforcement of this Gesler has restricted the number of those who have cown for the purpose of producing milk and wending its—

en and the state of the spiritual to correct the other who are to be offered in the correct time of the rectificating sources of the Dairies Order; which can be supply of mills—I hank the difficulty of getting good offered the state of the

see a special in a manipular of the strength o

io fairs and buy their cores dinect.

1504. The CHALPRAN.—There is a constant demond
by for them cown in the Dublin market?—Yes; in fact, a
e-system obtains which we have been trying to defent for

Mr. ANMEN WATSON,-8th December, 1911.

that never see the market at all. We have hern fight ing that question and trying to stop it under the Lains

Order.

1935. Prof. Marran.—Do those go not of the country?

—All, I am sure, go not of the country. They don't sell them in the lates now, for this review: we have get them under street observetion, and there has been a couple of very serious prosecutions against the owners of the lairs, and now people have recourse to selling from on the streets end lanes.

1906. The CRAMMAN, Which is in contravention of the enforcement of the Lairs Order, and not the Dublin

1107. Some afference was made to the fact that a countfeeth's amount of the unit supply for Debits counts by rail from the country. I should like by know exactly what is done by your Department with regard to the examination of the unit scoring into Debits? done by Sar Charles Camuron a couple of years ago. He examined as to the cleanliness of the supply, but,

the examination of the milk for tuberele heriffi. \$808. Do any of your Inspectors attend at the various railway termon for the purpose of examining the con-dring of the vensels in which the milk is earried? filthy cloth. We got the names and schreases of the fifthy cieth. We got me names and names to an people who were sending milk to the city, and sent cir-culars to them to have these dirty cloths done away 1309. Has any maneetica been made to see that the congestions in the circular were corned out?—Yes, but

1810. From the observations of your Inspectors and the reports made to you, do you know if notk is sent in vessels with inghily fitting lair, so that it is impossible for dirty unhetanece to find necess?- It is very easy for det and water to get into them, as the case are fre-quently very imperices.

1811. Was there any setion taken for the purpose of India was noted by sensed subside or the purpose of sourcing that this source of contamination should be removed,or the healthly to contamination minimised?— No, except the circulars I spoke about.

1812. Is it because you feel that there is some doubt on to the powers conducted on you that you have not token more drastic season in regard to selien to examine specimens of mile for the toberely astion to examine specimens or must be use tobacco-bestill in that there has not here a backersloppit ap-pointed in the city of Dublis. The matter has been under consideration, I may say under dispute, for a couple of years past, There was a backerslooppit ap-pointed by the Namirapal Cornord—Dr. Ressell—but for has not yet been sauctioned by the Lond Governor

1818. It is a matter of contentury between the Local Government Board and the Corporation as to whether or not Dr. Russell's qualifications exhibit him to held the position 5—Xes, that is so.

1814. Do you not think that it is a very unsafe, feelery state of things?—Yes, I think the time is ripe now for the appearances of a bartericogut, and also now he are appearances or a necremonous, size and for the establishment of laboratories in the city for deal-ing with this matter. I feel very strongly that the time has arrived when we knot deal with this quantion time has served when we most one who we extensive of belovels in milk, and that there must be extensive surples taken of the nells produced in the city freelf. and of the milk applied to the city by mil. The samples should be sent to a central laboratory and leated with all possible speed, and allow us to effectively deal 1815. Do you not think that it is eminently desirable

that the officer who is responsible for the carrying out of these examenations should have ample time to have of these exampositions sessed have ample time to nor the week done with all due diligence and care?—Yea. 1316. Is it not also of the utmost importance, in the 1936. Is it not and to me therest superstance, to me event of intention being discovered, that should be made at the estimat possible moment?—Yes, it is absolutely indispensable for the hearest of public thing between ten days and three weeks from the time

of the impochation of the guines pig helore the effects are shown. I should suggest this during that period there should be the strottest supervision of the suspensed

1817. Do you think it connectly descrable that the Local Authority of the district to which the mile is sent for sale should have the right to so into the country To other to increase were in a same of innerson inv— Yes, it is important for the public behilt.

1818. Does the right cost to your lease-ledge in any other public health area?—Yes, extensively in England; in Glungow, Edinburgh, Manchester, Warrington, Lavar-

pool, Sheffield, and

pool, hereness, and hum.

2019. Can you tell the Commentum how these powers
were obtained? Was it by general to by special legislation?—By special legislation.

1930, And have the results of the work carried out

is the it toraied to reduce the number of samples

ously. 1882. You were good enough to send to the memb of the Commission a report which was published by the Officer of Health in Manchester?—Yes, Dr. Niven in the Medical Officer of Health in Manchester, and Promatter, and he is provided with special interstories.

1823. So that it is his duty to attenue the specimens of milk submitted to him by these under his charge, and to report on their condition?—Yes. to report on their condition?—Yes.

1854. Do you think it desirable that all large centeer

of population should have the same powers contained that all large contained of population should have the same powers contained on them, and an officer appointed for the purpose of earry-lag out this disty?—I.e., No one she can do it sette intectly except a whole-time officer.

1300. The powers conferred by these secretal actual states of the powers conferred by these secretal actual states. factority except a whose-time officer.

1925. The powers conferred by these special Actoentitle the Public Health Authorities in the various disof the cours. At you same it wasts so were used one powers should be extended to this country?—I cerisanly 1898. Do you believe that until such power is or

terred and post into practical operation is will be diffi-red, if not impossible, to accurs a pure milk supply in rge contras of population, such as Duklint-1897. Particulus Particolnes are given in one of the tables refer ring to Manchester as to the number of samples found to be infected with hovine tobercie at different periods, and I not that there is a considerable reduction in the number - 20.

1328. Is it your opinion that the reduction in the number of samples found to be indected with three bactll is due to the precus conferred on the Loui Authorities and to the supervision servated - Loui Authorities and to the supervision servated - Loui to the character given thereby to the farmers as the districts in which the earlie were altested. 1880. Mr. Cannana. You are referring now to the

English cities?—Yes, 1350, The Courseax,—The point of my examination is to show exactly what power was conferred by special legislation, and how far Mr. Watson thought it would inguistance, and how me are. Watnon thoughts it wound be advantageous to have similar powers conderred on Dublin and other large centres of population. I see here, by Table III., that the powerings of infrared-axamples has been gradually diminishing, and diminishing from a rather alarming percentage to a compara-tively small onc?—You. 1881. I see there have been from time to time florten-

tions with report to the percentage of infected samples; there is nothing to show whether these were the to spenial there is account to take whether they had been traced to their attractions, or whether they had been traced to their nource—I refer to the number of tobards samples. In 1969 if was 189, and in 1901 it was 9 6. I am resiling now from Table V.7—I shink that would be only a natural state of affrica. natural state of affines. Of course, it would depend upon the number of enimals bought. One you the purchaser might be unlooky except to key a large number of inhereniar animals, sad near year, jost by a piece of lack, he might not buy any infected migrals.

1880. Therefore it would be unwise to draw any de dictions from these fluctuations?—Yes, you could not possibly do It. 1335. Are samples of malk sout by rail tested to secur-tain whether water has been solded?—What is not my

1884. You have nothing to do with in?-No.

1885. I wanted to know if the milk is sobrected to the same deeper of inspection as the mile rused in the is not within my sphere. 8356. Nor laws your subordinates?—No, nothing to

do with it. 1387. When they have to do in marrely to make an occasional inspective for the purpose of seeing of the

And then you carculance the district from which the milk coress?—Yes. There is snother department— the Food Imperiors.

5390. I should have raked, in dealing with the ques-tion of darry yards, if you have anything to do with the shorts as which the milk is vanish?—Yes, that work mass within the terms of my appointment 1940. Do vpo, or the officers under

1341. The year find that the buildings in which the trade is carried on one generally suitable?—Well, as sustable ne deuzee in Doblin are usually old-frahioned

bouses; the nower houses are not used for dairy 1842. Speaking personally, do you think that the would be warranted in finding fault with the powers as regards the daily shops.

1340. Are you satisfied that if an extension of powers should be sought in other directions, it would not he necessary to include the bouses in which the notal trade of milk is carried on?—If the powers indieated in my provious statement were conferred they would tell in favour of the milk slop. For instance, if you have a better cleas of man to handle the milk, and his person, he will see that his shop is clean.

1944. Lady Evenano,-I would like to sal, is the wilk coming into Dubbn only impreted for tuberculosis. Supposing a can arrive at the station, what is your arrestones. My Department does not do that that

1345. The inspection of dirty milk serious in the station is not in your Department?—No. \$346. When do you take samples of tuberrolar milk? -There are no such samples taken in Dublin 1347. There are no such semples taken at the station?

There are no samples taken up to the present with the sien of looking to taboremosis. The Samtary Author ritus take anaples to suvestagete as to the purity of the 1948. The question was asked of one of the witnesses whether, in case a cow with a tubercules under had

out the impector knowing where she went to?-We That is what I want to know. If you find a 1340. That is want a want to move. At you must a cover with a tubercular under, that is the course of percedure of your Department?—I take a sample from the secretions of the patter and hand it to our chances. Common fits bacterialspiral extraination. If the result goes to show that tohereis badlli have been found in that sample, I are unarranted to certifying confer the Provention of Tubecculosis Order that such as order is

tuborester, and in recommending the destruction of the 1800. Can the row disappear from the sked from the time you have taken the sample simil you receive the result of the unsipale?—I think it could do so, but we keep her under supervision, and such a thing has not

1361. The County,-Here you power order the authority of your Department to ceder the shughter of the heast?—Tes. My certificate recommends it to the Local Authority, and the Local Authority ceders in destruction. Tones are the weeks of the Provention of

Tuberreforts (Irvisa) Order. 1342. Do you think that if more general effect was given to this Order, the officer who is responsible for seeing to the destruction of the beast should have a discretion as to the energy of the compensation to be

Mr. Antonew Warson,-8th December, 1911. 1353. Earthur tiasu hold them to the present mani-ryom of g107—Yes. I think it would facilitate the intermination of discuse if we had powers such as you

militate.
1334. Has a precedent been established for that unfer the Pleuro-Povemens. Order 8—Yes, and all seboduled

1355. Full componention is given for the originals de-1356. And in order to secure the abolition, so for as

it is humanly possible to do so, of unimals suffering from m the House of Commons sitting to investigate this fine case, and a sense, on the suggestion is not connected. Cameron, that the Corporation of Dablin were of opinion that reasonable compensation about the given.

there was a Royal Commission setting on the operation lower animals to man. The finding of the Commission 1867. Lady Evenue, -I see that in the summary your evidence you say "that the Tube-redons Preof your evidence you say "that the Tube-culouis Pre-vention (Ireland) Let, 1968, does not decayly say whether the owner is to get the proceeds from such

correspec or portion of carenous in addition to the I did my best to precipitate a crisis in order to have it fixed by law, but I was not successful, because the darrante would sooner let the beast go and got no DASS. Sir Josep LECTRONS.-You are of opinion that

a licence would be very much better than the present

1339. And the becover, you say, would eliminate a certain proportion of emulable wenders of multi-The hence absold be granted with certain reservations and restrictions and restrictions. the character of the man before greating the hierace. 1990. At all events, you think the net result is that the selling of bad milk would be eliminated "Yes, of dirty milk; but I think even a person of close helots

1861. You say you writeh and investigate on turn 1001. 100 say 500 world and investigate certain suspectors conditions of the udder. What are these suspectors conditions?—All forms of greaties and insurvivos of the older, and observed touts and inflommation of the under.

1303. You take no action unless takerele booffi are suspected of being present?—We stop the supply of malk in the ene of martitis, and in dealing with a been discovered, the animal could be disposed of withcase of the adder other than tubercolor it is open to question. There should be some protection for the veterings inspector in that case. 1768, You think the Veteringer Inspector abould be

protected by law, because in orbitin metamon you may find puss matter, which is not tuberedlar, config-from the older, and that he may be exposed to the shaper of protection?—Yes. 1384. Does anyone advocate the use of milk where press is present as being fit for heroin ecosumption?— Not directly. But in dealing with matters of this description there is no higher suffortly than Dr. William G. Savage, who made a very extensive series

William G. Serage, who made a very extensive series of hasteriological tests of nells freen diseased core. The result of these investigations, proved in his very able report, in that very great doubt existed as to the pathogenizity of these conditions. 1965. Has he any doubt as to whether the mile is wholesome or mucholesome!—No. He says in his eport, which is very waterswe, that the organisms found in milk which cause the conditions of

meetitis acces nore throats. 1366. My question is whether such milk is whole-

I know I would not care to use such mile. 1997. That is what I want to being out. Now, the coxt point is that you have got powers at present to mole regulations for inspecting widoes, and protecting where the solders and dry, or where the hands of the numbers of the surproporting of the own or dist.

1500. Do you take any one to see that there are a stationary or the second of the solders of the second of the

facilities for the wirders to with their heards."—Yes, 1860, Are they supplied with hos water, far midiance?—They are always supplied with a result for weating their hands and a towel, and we are that these are present in every sleage. 1870, Well, then, you say there is no inspection whatever of satinatis which are out or grass during the sax menths of the summer time?—As far as I

137t. Well, theo, you say three is no inspection whatever of satisfials which no out in grass during the say mentals of the summer time?—As far as I forms there is none.

1371. And drang that time consumes a milk in Dullah have absolutely no petection on far as the during allocated with the period of the same and th

is concerned?—Certainly, as ragards tuberculoses in the udder. Of course, hybride is not a disease of the sideon.

1672. The absence of importers will reade it more thinly that such a disease may be considerable?—Ex-Table as just a justin saving on at that which I would then the sideon of the sideon of the sideon of the other in the sideon of the sideon of the sideon of the other in the sideon of the sideon of the sideon of the other interests in the sideon of the sideon of the city of the sideon of the sideon of the sideon of the city of the sideon of th

regards stayle of the content and restrictions of the acmission.

In the content per support of the content per support of the content is well known to the moperary of this Conmission that once of the state-date leve is beforesed to the content of the content of the conmission that once of the state-date leve is beforeing quality parallel three may be very worsen abuse in a quality parallel three may be very worsen abuse of the content of t

1974. I thenk you also said to your evidence that this operation of the Dairies and Govahafe Order has related the operation of the Dairies and Govahafe order has related the manker of purequest of milk, and as related to the say to dimmnin the amply, 1—28, very understanding the said of the s

particularly from Winkler and Weaford—have ceased to get their supply alone the enforcement of the Daurses and Cowthols Order, because the farmors say, "we will give up the tender we will go back to the fattering of colific."

2877. And, Intily, your evidence in their under exacting conditions, there is no protection whisters against a shift being fed on tuberoelse milk—Proc-

against a shift being fed on tubercele milk - Proteally none. 1378 Mr. CAMPRILL - Except that you examine the udders? - Yes. Even in the winter nonths celly 50 per cent. of the milk that is consumed in Dublin is preduced in the city; the other 50 per cent. comes from

1870. And is maxed with the Dublin supply?— You. 1880. And practically all the milk during the summer months spaces from the County Dublin and

1881. The Caussian.—There is practically no real protection?—This is true; 60 per cent, comes from the country, and a muzzl with the supply produced in Dublin, so that what may be pure a consummated by mean of the country copply.

1892. Mr. Winsow.—With regard to this 50 mes

1880. Mr. Witzow. While regard to this 60 per cent of milk while forest from the security and servebuls there is at the present tasts, occording to give evidence, to system of integotion, have you see in your key-leves or order the power to suspect that the power to suspect that the present of the power to suspect that the present of the present of

1888. But this unspection of milk at the stations, is in one as much under your control as imposition in an armoth under your control as imposition in the control of the c

1984. At far as join far sweep in in the factor of the stations being carried out?—Mo.

1885. You give revidence that you have no pave to go outside, year own sea and inspect asyate's designed year of the stations being the state of the part of the state of the part of the state of the state of the state of the state of the part of the fact overall be that we had the power. I think it is local-basiny shades on the part of the local Generalment of of the local General of the local Generalment of the lo

hopeleously should not be sent the power. I think is in hopeleously should not be port of the Local Gavernament Board to sak us to specify resease and places if we have not the power. 1897. That is not exactly the point I wanted to make. Do you actually know what occurs outside.

1388. Recouse in Belfast we were in the same position—on percey, who our shape years exhaps it like bosiness to go infra were shout the country to see what a gating or "Herw year in Belfast so by a number of 1389, I don't know. But this main game beyond his process and mapsets in Belfast and said of it, and process and mapsets in Belfast and said of it, and we index classification of the country of the we index classification of the country of the we index classification of the country of milks.

Yes.

1809. Here you say regorders to make us to what the commony district story and least whole make—the commony district story and least whole make—beater. It contains the used for milker and you desired. The contains the story and the st

core, send the milk to the creminer, and they hold open that an threat days were. I were no Dublis has determined in researc years. Does that suggest that the mill neight to Dublis has deversated—Do, no. the mill neight to Dublis has deversated—Do, no. estitic is Dublis has decreased.—Things have been more than instructed. I streamt any definitely, but you have send to be the mill not be the control of the country, orange to fractioned subley, fashitism and trantal, and you have a fermandisce country of oundease the country of the country of the few masses. That has get by allowed any fraction of the country of the country of few masses. That has get by allowed any fraction for masses. That has get by allowed any fraction for masses. That has get been for for creating use partitions with supply, and though for the certainty or partitions with supply, and though the con-

bigitimate milk supply, and those is certainly an 1905. In older words, so for an 1 inve boom able to gather, your evidence suggests that the creamery system colors the radio registy — You.

The control of the control of the control of the reduced the supply— and Coverheds Order has 1907. Yhas the consterned cown in Dublin has decessed— You.

The condensed milk fasteries have decreased by supply— Tex.

Willow, And I have not here able to find from your several reading and the sev

I know a great number of people who say they cannot supply the demand to the andividual to as large an extent as they used to do. They have to put them on of firsh milk now sold in the streets of Dublin in one day is less than it used to be?—Yes; I think it is,

1004. Then, with regard to these carelons, dirty, untily people—when you catch a thoroughly untily man who goes on being mutady and dirty, do you being him unde court from time to tune?—Not.

1003. In he fine!?—Note, a shifting, as a rule.

1400a. And if the same man is brought in four or five times do the resgistrates still go on posting on a fine affin chilling 5.—Yes, they see very sympathetic.

1406. They don't increase the prostly when the
offence is repeated?—Very selices, and they ex-

1407, Lody Eversen.-Have you had my one of a cowkeeper who keeps has place diriy; I mean, have

Glagger they have power to revoke a licence, oven at any time, and I think we ought to have such powers in Ireland, and he also to reluce a recreal of a licence of it was considered necessary. 1908. Mr. Wilsook.—In your perlamency evidence, Mr. Watson, you quote certain reasons why the miffe

has come, and thus kept good millions for three or four season, but now this is completely changed." You rive as a reason for that that such a condition has surum up since the wholesale strugbler under the

1409. We had no whalesale almoghter in Belfast?-You had.
That must have been hefore I was interested in the

1410 Prof. METEAM .- That was fourteen or fifteen vens ago—in the early intellers—It was mently in-lead in Belfost as it was in Dukhn.

1411. Mr. Wincov—it he ageton in operation else-where—where the cow is milked for a yest and then old as heaft—No. In Benjand and Scotland, when

sold as best No. E. England and Seutland, when they come arous a spot make now they keep her in the family for a long time. That is an ease an advan-tage and a distributionation. It is an advantage to long a good over, and it is a distribution to long to long a good over, and it is a distribution to long the ten-turing the contrast his possibilities of the runnel be-suming tubercultur. The more as amount is bounded the creater is the charge of the housener tube-per-

greater is the danger of its becoming tubercular.

1412. You suggest that this conflicts is peculiar to
the Irish milk train?—No; I don't thank it is possible. in Lagarrick and other creamery districts. The Charman,-I don't think it is,

1413. Peof. Microst.-What do you say is possible? Mr. Winson.-The system of keeping a cow for one

Prof. METERN.-In Edinburgh that is the rule. Warness,-I think the costom in most of the Ray lish towns is, if they come series a good milth cow, to

keep her and have three or four colves before they sell her. The custom I mentioned is peculiar to Dublin, but it is not true of Limerick and the creamery dis-

1414. The CHARGES.—I am families with the lost that in Limerick they keep the new till old age?—Yes, and in the large English cities. 1415. Mr. Wilson.—You are of opinion that the sys-tem you refer to war due to peculiar conditions subse-

cornt to the Pleuse-Possmone Act?-Yes, 1416. And if the other system was desirable, there is nothing to persent the people from going back to 167— No. The point that concerns me most is the freedem

M17. As regards the Deblin trade as a whole, I take it it is for the greater part in the bands of small far-mers, comparatively small men without much capital?

1419. Three are the men who centrol the trade in

1620. Is there a commercial delay on the Continental lines reuncoied with the Dublin supply?-No: that

would be a big scheme. The assess approach to that is the Lucan Dairy. 1421. Is it run by a private company?—Yes, that is the only restance I could give you.

1423. With regard to the communition of power in

Dahlin for redocrations, you have given some interest-ing figures on page 3 of your power of ovulence. Yes say that in 1009, 1,439 were examined, with the fol-lowing results: suspected cases of tubercubous (for cattle), 8. These were not cover in milit—No. 

1424. You say the samples of suspected milk taken were four, and the propertion of suspected cases were 5 —that makes 9. You say, "the masses arregular in centour, and where no acute infinamelian was present, and in which tubercle might be the initial factor, num-bered 45 "0—Yes.

1425. In point of fact, you did not succeed in proving toberculose of the udder in any case?—No, the box-

high, You had no proof of the existence of fuheren-leais of the under?—No; and the only proteotion I have us in handing the samples to the bacterializate and let-ting bins protected upon them. If he seps the sample is not serbices, I will get another do him. I go by

1427. Lates on, in the next year, the suspected cases are II, and the semples of milk taken numbered four, figures with those you gave in the comparing mine figures with those you gave in the quotations shout Manshester, you would suggest that in Dublin there are much lewer tubercular under many than in Manchester?—That, free from all prepudlee, is

1426. Do you think that the figures indicate the line of truth?—I think it is possibly true; I dan't say it is obsolutely true. I think the manifemer of tuberoulesis.

1429. That is, the figures which show two co partitions suggest are pointing in the direction of truth? 1439. Because the discrepancy is very great?-Yes.

cube cows were exposed for sale in the castle market, and the Public Health Committee convened a meeting on the City Arms Hotel, which was attended by repre-sentatives of the salesmasters and large experience, and all the men who trade in that market, including English. all the men who treat in text market, incoming magnes-men and Scotchmen. We took evalence direct as re-gards this question of tuberculosis in Irish cattle from men who bought up to 600 fat benets in the week, and their wedlet was that the Irak cuttle were practically free from tolarculosis. One man from Oddham, a Mr. Corter, who has to purchase stock in the North of Scot-land, Norwich, and other English districts, for three

cular anomals was for greater in these districts than in round attentials was not present in those diseases were in Ireland. Some two years ago, Lloyd's Launumee people were about to start a separate bounds here in Dahlm, and when the agent interviewed me, I seed, "You are and when the agent interviewed me, I seed, "You are sensing at the right introe, there is no teherculess her soon, it is vanishing even, and we are perticully free reasons they so it on coming, because we have secured the information than the limb cattle onyone far sub-taining reaches a England see very main farms from the ing reaches a England see very main farms from the ingreatest as England see very main farms from the ingreatest as England see very main farms from find this would be a very good place to state a boxolo," 1343. Ser found Lowerance. "Aut One 1 think link in

1672. Mr. Wilson, - And, consequently, when you or page 7 that only there cours were shaughtered

under this recent Act during the year, that does not marry that undiscovered toherculous as extensively prevalent?—No, it does not. I would file to be norothy certain upon this question of tuberculous of the Mr. Autono Warson,-Sth December, 1911.

odder. I consider it is absolutely essential, if you want to get at the rost of it, that you must take her samples it up no is done in England, and not he doing the thing by half measures.

1400 Sir Jens Lawrunes.—And without it you could not know what is the reel condition of the cornel?...No

proted smust under close observation. Could you give milk of a cretain cow. milk of a certain cow. He says he won't, but where he gets you away he returns to the old passelse again-is there any way by which that man could be provented from using that cow's milk?—I say we should hav-power to walnot, to see that peoper modificious were-

founded fear or suggestion of tubesculous of the miles. sumals.

1635, Would you ask for the use of the tehercalin
test before slaughtering?—Xes, I think it would be very 1496. In other words, sithough, at the time of in-

spectron, the Inspector may pour the milk down the sower, the control is not year affective?-No, it is not there can be no effective control unless you absolutely 1437. Have you say reason to behave that a suspe 1437. Have you say reason to believe use a suspec-ted ever say be bulken envey in an outlying shed, so as not to come under the notice of the Empetor?—That would not surprise use at all. During the please-parameters cottless! I flower of a distriment who have

I only gave the report to show what was being tion. I only give the report to show when min neing done in Manchester with such excellent results. I think you can accept the name and reputation of Professor Delipine as good enough to nesset you in your

deliberations.

1690. Ser Jose Learnager.—Where was this report published?—It was read at the Congress of Veterinary published?—It was read at the Congress of Veterinary for eigenstation arrong the Association. 1440. The Chickens,—Sir John Leutnigue says it is

a very valuable document, and should be in the hands of the Consequences. We will get the Secretary to Wiretess,-I will be only too pleased to get them for 1441. Mr. Winson,-You gave us evolence that the

1642. Would you agree with me that it is no injuries at all to the farmer to alreghter such an animal, a cow of that class to generally a " piner," and ' sod in cost-

ing the farmer as much as, or more than, she brings in?—I would not go as far as that. I know it is an exceptional case. There are a termendous number that will fatten when they get over the soute stego. 1463 The sained I am speaking of as a climitally and obviously discussed animal?—Those ought to be shaugh-

1444. Would you agree with the suggestion that and mals of that hind are not usually earning money for their owners?—No, they are not.

1446. Ser Jone Leventones, And are they not a danger to the rest of the heed? - Yes, 1446. And are you not doing the furner a service in

taking away south a cow—Xua.

1467. Prof. Marrana.—Moscover, you are allowing him

800 compensation—I—II you allowed full compensation,
as is done in the rane of plenor-persistence, you would

find that, instead of the cows that are doing so conmore amount of home being concessed, every honese

culsion would come forward and eye it would be no

to be on the downer if it repeated the ease, that he should

be to the downer if it repeated the ease, that he should

have the annual absorbtored, and he would be allowed the owners, you will never make satisfactory program.

1698. Mr. Winness.—You give on page 6 of your prical
of evidence a return aboving the number of cases 10be preducing tuberculous will at the time of the in-

spectron — yes.

1698. 419 of the suspected arimus were proved to be tolercolous by interdistan experiments?—Yes. 1650. And would you agree that the remaining these

1461. And that compensation should be given?—Centunly, if the result of the exemptates was in favour

Surfix, if the result of the reasons of desiraging the animal 1448. So force Lawrences—Of course, a great deal 1448. So force Lawrences—Of course, a great deal 1448. No. Morroot.—Arising out of Mr. Wilson's 1448. Not. Morroot.—Arising out of Mr. Wilson's market, was world not sharphby every mined that be a very tell order.

1454. Mr. Witson,—Out of an enormous number of

1444. Mr. Winner,—Out of an enormous number of cattle 1,972 were suspected. Out of apparently 8,000 samples of moved mile, which covers a large number of cows, they found that 1,972 cows were suspected, that that only 419 of these were actually producing tuberels beelfh at the morners?—Yes. 1466. And it does not at all follow that others of time 1,672 were not secreting toherele barilly at machier memont?—That is so. A comple taken to day might 1,012 were no mercung memors then to day religion to fee from them, and to control the milk might be recking with them. The question of daughter is a

to 96. That is the organism I want to get a Helic let away from. I want to speak of the climically teher-celor zomes!—Ther; they should be shrightered. 1427. And when you get what this pentleman get in Mescalasses, the suspected minimals should be tested. There ought to be some differentiation in the cases of the tuberceim test had been applied the animal should he reclaimed. I don't say shoughtered, unless you believe that it is openly affected, and is bitely to affect other

1458, I am specking of the atomals which are visibly rrong?—All cases of open tuberculosis should be de-

stroyed.

1439. From your evidence I gather that there is a anish number of these settends in Itoland as compared with England and Scotland?—Yes, the number emall. 1690. Dr. Moseumus.—£10 is a moderate compennation for thei?-I would somer give full commen-

1460. Professor Mirroux,—Are there many serimals that are eliminally tolercolor weeth #107—I would not be surprised if there are some. I think you would get number in Ireland 1462. Are they worth 410 an the open market?-

sensed.

M68. Mr. CARPBELL,—Surely in the Doblin drifties
you would find fine big copy with indecoclose in the
udder that world be worth for more than 2007—I
wild most say that the number of desimals affected
with indecoclosis of the odder in Doblin is well.

1664. Are there many cowe standing in the Dublin defrace to-day worth less than £109.—The average price

of a dairy cow in Dublic is anything between \$15 and 1466. Mr. Wilson,-Have you say reason to suppose that your examination and control of discase had some what the report suggests—driven unlikelible and male into places where they are less easily found?--- I

Mr. Autonew Warrow, -- 8th December, 1911.

think they are very much more careful of the stock slay key. I don't think that they drive them late places where they are not observed.

1600, Mr. Campunia,—A great deal of the milk su 1000. Mr. CANWALLA-A great dual of the milk sup-ply that a new coming in by mil is from places where voterinary inspectors have been appunded for the purpose of leoking after the osttle?—Yes, recently, within the past twelve amounts.

1407. So it is bardly fair to say that all that mill: is coming in without inspection?—It is only within the past twelve morelia that many of those appointments have been made, and I thank there would not be a very difference in the supply now

1468. We have m evidence that the great bulk of these districts are now supplied with a voterinary su-

1459. So I think we may furly take it and expect that, no matter what this Commission may recom-mend, already some improvement has taken place? undenhtedly 1670. Do you think there would be may danger of

power to go down into their districts?—I have no doubt about it; there would. outs about it; source would.

1471. Do you think that is one of the reasons why
is Local Government Board is anyone to give the

it is reasonable that they should take that view.

1472. They have, to your own knowledge, within the surgeous appointed?-Yes, 1475. And co-operate with the Department of Asriculture?—Ics.
1474. We have it in evidence that a number of veter

mary surgeons have been appointed, and it is ealy reasonable that the new system should get a fair trisi?-Yes, I think so 1675. I would like to ask your opinion about the quantum of tubecoulosis in outile generally. I am ver-much interested in it, and the Department of Agricul-

cattle from it sampeoner "-1 go. 1476. Now, you are aware, I dare say, of the recom-mountaines made from time to time to key and got rid

1477. That is, that saimals found with tubercolosis should be tested with tuberculin, those which reset being kept separate from the others?—Yes, and if you being hope separate from the others - 100, and in you have a high-class stock you need not be afruid to rear celves from re-acting yow. That system has been celves from re-noting cowe. suggested in Denmark and other plan-1478. You know it to not in operation in Ireland?-

1479. It has been very successfully carried out clar recommend farmers to send to the abottor animals that react, and that the Cattle Traders' Association sused a read rumpus over that embject, and questions were sked in Parliament and the thing had to be stopped?-

Yes.

1480. I put that question to you purposely, because
you understand time question and would be able to
advente public openion in the master. Take the cediyou would not healthin to futtee these animals and send them to the butcher?—I would have no healthine what.

1681. And you say there is no reason why the beef should not be consumed, after inspection of course?

1489. Would you recommend the Department to try to execurage this system of confrishing inherestons.

1485. More particularly from among the pure-bred herda?—Yes; there should be grants given for breeding tuberculous-free cuttle, and the tubercular test should 1484. Of course, if the cown re-asted, there is necessity for disposing of them there and then?-That is so; they ought to be separated and put in houses by

1486. But there is no reason why you should not beed from them, they neight have perfectly healthy offspring?—Yee, perfectly healthy.

1690. If the offspring are taken away and kept with cuttle that dan't re-not?---You. 1097. So there is no necessity to an immediate shoughter of the cowa?....No. 1688. And are you of opinion that if that system were arried on with our pure-hand hands it would lead to she reduction of the number of re-outing cowe to the

1682. And that would re-not open the milk arredy?-Yes. In a matter of seven or eight years on the Conti-

1890. In confirmation of what you said about the cown 1990. In communication of what you said looms and come of Ireland and being so tabeverder so those of Grant Britan, I don't know if you see aware of the work of the late Mr. John Spier, a very important Glangow larmer and dairyman, and a pearsment agricultures in

Well, for many years he was supplying milk from own that did not re-not. He had occasion to purchase litth and British castle, and he submitted them to the The CRAIRSON.—That is very gratifying

1491. Prof. Marran.—Referring to the question which Professor Campbell put join now, it is not com-mon to find tuberculosis in the fiesh?—No. 1492. 1422. Unless the disease is very generalized, no one thinks of conferming the carcase?—No. 1498. Seating the portion that is affected in sufficient to guard the consumer?—Yes,

1494. Consequently, there is no reason why any per-am who wants to free his hard from tuberculous should Shughtered S. No. 1995 was found to be unfit for

suman use, you compensate the owner?-Yes, if the 1496. That would be an industrient to the farmer to send has nown to the shattour to be shaughtered?-Yes. 1407. And there is only a small amount of risk that 1407. And there is oncy a small amount of the some the summed would not pass the test?—Yes. 1498. And in a period of years, with judimous compensation, it would be possible to risk the hard of teherenlosis?—Yes, it would only be a quantum of

1499. Now, we have been tuberculous of the adder spilen of very gibly; as it in easy disease to diagnose;

-It is very difficult. 1860. You might have some in which you would have

hitle reason to suspect it was present, and yet the might be found to have the disease extensively?-Yes, Ingle se seems to nave the assume careful a cow that 1501. And it is not always necessarily a cow that appears to be in bed condition that is tabercular, or is 1902. As regards these other diseases of the udder, do you think is a possible that serious of them may be dangerous to man - Some of them, I suppose, would

1503. They might be indective to man? 1504. It is possible also that the so-called mik-bolls would be?—The researches of Dr. Savage of the 1806. Experimentally, at all events, there is no dif-

farmor observed between the organisms found in milk both and those found in man?—No; I don't think so. 1506. I suppose a certain number of dairymen in Dublin send their cose to the country in summer to 1507. Have you any power to follow up these county

1508. As soon as they leave the city boundary they 1006. As soon as tary leave the city boundary may are out of your sphere of influence?—I have no juris-listics, but I have sematimes gone out at the inst-

delifica, bol T have securitions cone cot at the fem-position of Si Charles Carneson. In one of the sen-or of the Charles Carneson. In one of the sen-or of scopecial typloid Prefesser MeWencey was axion interpretation of the mile suspecial, but he follow the control of the control of bosish of typhoids. He some carles of the control of with the behavior handle. I wend not said centimed the address, and Sir Cheele Carneon reggented that I should only be to there can be said. the address, and SN Chaeles Curacon, respected that I should apply the tolercolm tent. I end to him there was no should apply the tolercolm tent. I could be him there was no respect shall about in which to curamms the cow, one that which all my gaings in and common the cow, and that which all my gaings in and common tent of the place. I said also that he had before work the Transpare Mewberray had that he had before work the Transpare Mewberray had Mr. Avogaw Warson, Stit December, 1911.

made complete aginal experimentation, NeWeeney told us, after his experiments, that he was declare with and fast becall, which was a different thing siting-tile and the state of the state arter in common with what is known as said

1510. You say that this mirred experimentation requires a long time to develop?-From ten days to 1511. It is not quite certain till about three weeks-until the animal has developed the disease. That is

1812. Then as superis the tubercolm test, have you any power to apply it if the owner objects?—None

1588. Den't you think it would be a vehiable saset to your methods of inspection if you had the power to apply the tuberculin test willy-nilly, if you suspect

1534 You think if you had that power at would facultate your diagnosis; that is to say, you would be able to arrive at a dections more quickly as to what the minimal was suffering from S-Los.

1335. And lead to definite infamination as to what the animal was suffering from?-Yes see you say that so some coses the powford on the refuse of distflicrics "-You, and that their normed. Livenesu.—In there a definite 1517. Ser Joney

be a moderum of it. a monorum of it.

1518 Professor Merrant —As regards milk of the
1618, would you suggest any pattern of pail to be introduced with the object of preventing contamination by dust and such things -I think if we had machiby cons and some energy—I three is we had made nery for milking it would be vary effective. There a certain form of pull that postcoto milk from dust.

1519. Do you think it is possible that if such a part torn were recommended it would protect the milk from contempositive?-I don't think recommendations are worth the perper they are written on. 1920. You prefer penal powers?-You. As a matter

means of portection, because very frequently I find that the person as the shop largets, when attending outstmove, to replace the cover, and the milks gots contaminated. I think something of a more permanent character is needed.
1521. You stated to the Commission, I think, that the mureomabity should have reserv to take sameles of only of milk coming from the country, but also of samples of milk from from the cow, and have them submitted to a buctomological examination, so no to

is tuberculous to the heed.

1582. Mr. O'Burn, "You were saying there is less nelk conting on the Great Southern and Western line

1923. How is that, in space of the poor pure which is being received at the erremeny, in compared with what would be given for milk in the city? It yil due to the personal homess of the farmous that they don't send the milk to the milk."—It thank in. 1984. You don't think that the realway facilities, or werst of rollway farabiles, the breakment of the owns

returned empty, and the question of the fraudulent returns empty, and the question of the frankalest handling of the milk, provent more farmers from sup-plying the city?—I think it would 1325. But on the whole, do you think it is because they have not taken the question sufficiently into consideration?—I think it is, pulsage, that there farmers have not thought out the matter and how they might buy milk, and as they have the considerers to area heads this sort the milk to them. 1528. Do the big Dublin daintee supply their milk from their own bends "-Yes, but I knew the Lucan Dairy is altogether a country supply. They produce

1327. I suggest they would go to the country commercy distants just on readily as anywhere the if they could got a good, shear supply. In believe so. As a matter of first, I have it been the manager of the Losan Bury that their supply is running as about their 1708. You den't bapeen to know what price they by to the country popule producing the milk?-The price is 7d, per gullen et present, and in delivered at jefes is 74, per galles és pécucis, azil is delivered at he salleve station to the coursel, azil is delivered at he salleve station to the coursel, that he not much is 1300. We were paying 64d, at my conneccy lest routh, and we said a pointy for the returned mili-nomial to 14d - 15d. or 15d.

1592. You have the milk coming in at the different

1509. You have the milk coming in at the different tormed at Dublin under your inspection to a certain extends—I was explaining before that this is the duty of another Department, this food inspectors, 1504. But you don't book upon it as one of your regular datases—No. 1504 upon the own of your 1504 to did report that you found dirty clother ces.

1825. So would it surprise you, from what his come under your notice, to get a letter like this." I should he to draw your attention to the fifthy state of the milk arriving in Dublin. Some time ago I was wait-

he milk train arrays with the caus in open waggons Few, if any, of the same had tight-fitting lide, and one or two were covered with a piece of old mackin-tosh, in a fifthy state. I took the his off several of the came and there was a regular start of fith on the top of the milk"?—It certainly would not surprise me.

1538. And that they were not fixed?—Yes.
1839. Do you think that the inspection on the surveil
of milk in Dublin should come under your supervisor? 1590. It seems to me just as important a matter as the imspection of cows?—Tee. 1541. How manly inspections have you?—One chief imspecter and three entirery imspectors, four in all. 1542. Are you the head impetite?—Tee, make Sir

1543. Sir Charles, I suppose, has not a great deal of time for inspection?—He might go out now and again. 1544. So that you may say be is not an inspector?— Not in the sense that he goes senural making inspec-tions. He is the court of uppeal in these matters. 1986. No. 1, too, minrol spend a great deal of your 1986. You, too, minrol spend a great deal of your time going around?—No. The owner I along time going to the inspections of dany vands it this. I get a report to go into a octuse distinct in Dublin to import rathe in degs; sententianes I have these or faur reports as the in degs; sententianes I have these or faur reports as the

2546. Mr. Jacque Collins is the registriz of deliver and chief Inspector?-Yes. 1547. Deer not the regularation of decrees eccupy a good deal of time?—There is not much time wasted in

1548. That means that a certain portion of his time is taken up by this registeration?—You. 1548. And that leaves loss time for inspectace?—Yea. As I said, during the summer months we have to give a great deal of time to registerism, when many

to see that they are regulared with us. 1660. So that registration then does take critic an approximate time?—Yes, it takes up a good deal of time in January, June, and July. 1551. You have three dairy inspectors and yourself?

no milk themselves in the city,

1532. Are these qualified men?-They have pseud 1553, Prof. Merran.-Are these in addition to the others associated with you in the inspection of slaugh-

1554. Mr. O'Baum.-Is it not your duty to respect the darries and orwalads, the actual cows, the workers, and the markets where the cattle are sold?—Yes,

1856. And the shoughter-houses?—I do that; no one cles is concerned in this work.

1556. According to your statement here you say " the following returns show the importants work for the post three years." I take 1920 honzame the return to 1011 is not up to date ?—Yes.

1027. You have insureded 7,122 dairy weds?—Los. 1058. And dairy and mile shops numbering 13,976, and five of you have to do all three?—Yes,

1509. Can you inspect adoquately 13,000 darries and milk slope, hender sloughter-houses, milk coppleyers themselves, and occasionally drop in at the nativoy extent, so far as the darries and cowsheds are con-cerned? During half the year, are the cows not on the field?....Yes, but it does not follow that because they are

for several days. So that even although cows are not netually there all the time, the premises must be kept under observation, with the possibility of the cowe heing brought in.

1861. Now, you state in your evidence that you try
to get worst and impose the different darray once a

to get would and inspect the different darraw once a fortnight?—That is, roughly speaking, what takes place. \$568. I werk that out that five of you would inspect

1502a. Each of you?-You need not put me down oming those inspectors.

1663. Then practically the whole work is done by the three importors?—Yes.

1064. That would make the inspection still larger,

inspect the own generally and the sheighter-houses."

They are not concerned with the slaughter-houses;

1566. Bo you thank that these four man can each as-spect 99 cowsheds and dairnes and milk shops in a fort-roght?—Yes, castly, send I don't think they would be guilty of excessive duty. 1966. I see that 12,316 is the number of visits made?

1887. It seems to me that the Inspectors must be always on the prowi from morning until night, from - cost to year's and?...We see. 1968. You think you have got a sufficient number of inspectors?—We had four, and Str Charles Cameron.

who thought the number excessive, reduced the num-1509. At all events, you do not feel that you ere under-stuffed at present?—I have always clumed that

we should have at least one ordinary interestor for each of the four districts in Dublin, such as we had for years.
1870. You said that thirty or forty years ago dairy

men kept a large heed?-Yes. 1971. And you are of opinion that the petting of hig-or men with more could would be likely to produce ofter conditions?—Yes. 1972. From the point of view of cleanliness,

tion't know what was the state of the milk in those days!—No, but I know what the condition of the dairy says?—30, not a snow wast too condition or the carry yards was twenty or thirty years ago. It was character-lated by a hugo heap of memore, that was not removed,

yard. I allow no dway yard to have more than a country of days' manuee in the yard. 1973. You think that at present the dairy cows kept by the suppliers in Dublin are mostly lept by smaller

1874. Would you advocate heeds bring larger, and being kept by one man, or one company, and kept collectly contrible Dubling-No. I would not advocate putting out dairy cows from Dublin at all.

you have them out in a large area you can only our inspection once, twice or three times a year. the been the hestory of London in this matter? The County Council put out the dairy cown, and the result is that the supply has very much fallen away, and the County Council are now samped inviting them back. them inspected frequently

55

1576. I was thinking of a place where you would have a central dury, a control apply from outside—my, in the Pharaix Park, or a posture distinct like that. Some nexts form, that would be easy of assess?—Xes, with-out herstation I say it would be a good thoug. If we could get some piece like the Albert Model Fram, Dublin, we would be well off. 1577. You would not advected removing delives from

1578. I meant that, because I gather that the worst town dairy cows are sent to the country practically free from maps otion, and the milkers have not feelking for clearliness, and, to fact, their milk is comprised see, under the dirtiest circumstances !- That

1879. Dr. Moosunso,—I gather that the milk leads is not in a very dourtaking condition, and not very peritable?—No. 1980. I see that you estimate a profit of 2/4 per week per cow?...If you look at the priors of my evidence, you

tion, and to support his view that his business remaining at a loss, he showed me the result of a chartered accountant's investigations, in which his trading for the six months showed a loss of glill, and that in-cluded the last six meeths. He has a log farm counter the city, and it is not for me to say whether or not benos patting too much value on the grass land. The amended figures were from another source, and that other source, it occurred to me, was considerably more reasonable, for I cannot possibly consider that the dairy proprietors of Dublin ere such philanthopists as

to be trading at a loss.

1581. The Changas, —But aroundstones differ, and 1861. The Character.—But circulamentes differ and e may have been dealing with a period when fedder sid other stuffs were very high?—That as so.
1662. Of course all those things are governed by local circumstances and prime which fluctuated from your to your?—That is so. 1380. I think 39 would be rather difficult to generalise, 1868. I think it would be rather difficult to generalise, from the experience of one year, as several faced operate both as to the supply of fodder and the de-mand for by-products, and all these would have a client on the concenne conditions under whach rollic was produced?—Yea, it would.

1684. I think we carnot arrive at any definite conchance from the stries of figures obtained under these circonstances?-That is so.

1585, Dr. Moonman,-Do you consider there is a sufficient male coupely for the demand?—No; I would eather see more of the genuine article and less timed

1686. That shows there is not a sufficient supply?-Yes, and the unfortenstep people who have to take the timest milk are the poop water with children. It is made up, I believe, of shramed appeared milk, with the addition of super, and you cannot have beadily children or tool of that had.

1587. When an animal which is not eligiosity 1580. When an anomal within a not thereby, effected with tuberviloits, and is otherwise healthy, reacts to the tuberviloi test, your suggestion is that the animal should be suggested and perhaps a calf token from her?-Yes.

1988. Would you suggest the possibility of making that animal immune?—Yes; repeated inconfutions of

1980. Would not that be a great saving?-Yes 1990; Prof. METTAN. -- Do you think that the applicusase overstion of existing lesions56

Mr. Arrany Warson ... Sth December, 2011. 1591. Do you know of anyone, as any time or in any country, who send that toberculis is en immunistry 1392. We say speaking of the tubercalin used by the voterinary profession 7—Yes. 1593. Sp. Jone Leveuce,—Are you aware of the expert of valuable stock to the Arregims by some a small dose of intervalm will produce for a time, ap-parently, absence of reaction?—Yes. 1994. And when these stomats were examined after importation by the Argentine authorities, they were proved to be tubercular.

Prof. METTUR—I must take exception to that. I deny absolutely that veterinary surgeous did such a thing.
Ser Jose Lasermann.—I did not mean to say Ser Jose Learnisse. - L was a suppose. I supplied the suppose. I supplied the suppose of the suppose. I wildraw. someone with reterinary knowledge. I writidraw. tion of teberculin may give the annual minumity to renotion for a short space of time, and that a second does may not give a recotion?—Yes. I know that as a mail-1995, Prof. Merrays. A sufficient leastly of time does 1996. The question that has arisen in the Argentine is this-they complain that the airmals which have been imported into the country have, when they ar-rived, reacted. This is the explication, and I relater take exception that it should be implied that it was a retenmen suppose-Six Josis Lieiransour.—I evaluates that, I fill got as-mula any specifies on the profession. The Stone see any laws given in the Stone seems as the specifies of may have given the cannot a fost of talescend price to the effect upowher. It a sufficient ineight of time her of the mes to pass off, then the selfon of the research done is marked. No recording opens, and the sufficient of the first the second of the second of the second done is marked. No recording opens, and the sufficient of their design of the sufficient of the second of efforts of the subcretic have powers of, and then or delicted of the subcretic have powers of, and then or latent re-supplies and the second of the subcretic have provided on the suffi-cient production in the Argentian the restriction occurs. Sir Joun LESTABORS. -- I withdraw that. I did not anto emphases that point. I may mention that the case of critic passing between Germany France. When the animals were slaughtered abattors, it was found that tubesculous was common than the tuberculu test made on the fronter had led them to suspect. The azimals had been previcosly injected with toheredly, and hence the failure of the tubercally test on the French side. 1997. Dr. Mocemun,-I did know that there was a way of making these immune, but one the immunity be reade permanent - Witness -I was under the impressed in the repeated does of teleprofits read to it.

1988. Mass McNezz.—With regard to the question of compensation mentioned some time ago, you thought that the compensation should be uncreased?—Yes.

hygienic condition?-When you are going to deal with forms of compensation you have to be very correctly as to the conditions under which you grant it. You ought to be cortain that the man used all possible means to see that he bought a healthy animal, and if he has not used ell the meson at his disposal, I think that ought to be taken into account. If the surmal is m a stuffy boose he should not get the same consider 1660. It has been said that in some French Departhave been convicted of selling dirty milk should have the conviction displayed in their uradows, and the date at which the conviction was made?—I am afraid the British public would not stead that. Sir Jose Levidence -- In your draft of evidence you give on page 3 a total which you say is token from some work of Surason-Colonal Eduar Flina—the numrailway lines?-1802. 1,148,000 for 1904. That is correct as to the 1960. Is there any reason to think that hust your it

was more or least—I think at present there is until the produces got over the enforcement of Duines and Cowskells Order. In Worklow and ford a number of people have given up milk production, because they are streed of processions, and been not the money to put their premiers into the order that vald be requerte. 1606. When you say less, would the decrease be such as to materially effect the question?—Yes, because I have it from several of the large mile vandors in Dubin that they have hed the greatest possible difficulty in supplying their outlooners for many months pass. 1605. A large quantity of milk comes up by trem 1900. A large quantity of mile rennes up by trein immegested?—Xes. 1900. Are there mile-testing societies in the creameries?—I think that it done make the analogs Mr. Campura.-We will renduce evidence on that 1606. Lady Evenso.—In the milk supplied to the

Dublin Hospitals from the country liable to inspection? I am glad you have usleed that question, because the are talking about taberculous-free milk, and is no one in the hospitals to ask this question. 1607, Sir Jone Lastmone, -- We often selt the ones tion, and we me told to mind our own business, which to attend to one passence.

1608. Lady EVERALD.—Are the cown that supply 1609. See Joun LENTHICSE.-The doctors, on a body 1610. The CHARREST.-There is one other oxestion -- don't you think from your experience that it is commonly desirable that whatever Orders are made for the control of the milk supply, and all other questions appertuning thereto, should be free entirely from any

at the compensation should be increased?—Lex.
1993. Would you give full compensation to a con-We are very much obliged to you. Mr. Watson, for keeper whose promises, for instance, were not in a your exhaustive and important evidence.

The Commission then adsorred to the following morning,

## SIXTH DAY .- SATURDAY, 9TH DECEMBER, 1911.

The Commission met at No. 5, Upper Castle Yard, Dablin Present :-- P. J. O'NEILL, Esq. (Chairman); Lady Evenard, Miss Massaret McNeill; Sir John LENTAIGNE, P.B.C.S.L.; GEORGE A. MOORHEAD, Esq., F.R.C.S.L.; ALSC WILSON, Esq.; DERMOD

O'BRIEN, Esq.; J. R. CAMPRELL, Esq., B.Sc.; Prof. A. R. METTAM, B.Sc., M.B.C.V.S. S. W. STRANGE, Esq., Socretary.

Professor W. H. Trongresoi, M.D., examined,

1621. The CHARMAN,—You are, I understand, Dr. Thompson, Professor in the University of Dahla ?— 1612. In what particular branch?—Physiology. 1613. Are you a general practitioner as well?—No, I do not practice.

Professor THOUSENSON .-- Old Descuber, 1911.

1814. But, in paratil of your investigations, you have formed an opinion so to the value of mill, as food for the human subjects. "You, part of my work in to beach the whose of food staffs, and I have devoted a good deal of time to thisk aspect of my work."

1615. I take it that you agree that for safe-guarding

1616. I take it that you agree that for safe guarding the potble boths it is concated that milk as a feed about the preserved from infection as far as possible?—Undoubtedly.

1616. Is it, in your opiners, the greatest source of danger to the public bouble of milk of an impure about.

danger to the public health of mills of an impure shannefor should be used as human food T-Ne, of the vegpreatest danger. I do not think you can substitute any other food for mult to take premisely the same place of I look upon pure milk as an analogousable strated of lumino field.

1077, Do you believe, from your knowledge generally,

1007. Its year belows, feirn year knowledge generally, that it is need as extensively, as its merits decree, the interest of the control of t

since the control primary for each of the control primary cont

These, they are the first production of the control of the control

to be the extrace. It was polarhed from, son from the best of the extract of the second of the extract of the second of the extract of the second of the extract of the ext

of products and fit by, catalacty-inten and sulter but they all liedst weight, and many of these dided. If, however, half is temperated of mile per day was state to the hard stampental of mile per day was state to the their weight reportly. Stemulating seasonal was looking in the conditated date, which was ourplain in the conditated date, which was ourplain in the mill, said it has been shown that to all probability in a mile of the state of the said and the state of the said and t

the lipsule to which the close's to be stuffened. Definite evidence beauting upon the same point has plant has been expected, but the same point has a point has a premisery of the same point has a point point of the same point has a premisery of the same point has a premisery of the same point has a premisery of the same point has a point of the point of the point has a point of the point of

matter. To this rise util was slade, and the assemble is been assembled to be the second of the seco

for beyond their in-salled dynamic value.

1619. Mr. O'Benez,—That is destroyed in the butter?

—It remains beltion in the milk.

1620. Sie Jone Levenove.—Does it remain in the

1611. The Gazantov—That understelly is a most consistency. I shall be described in the seal of these consistency. I shall be the seal of these consistency of the seal of the

personnel and the little of arthrophysics and so generally the control of the con

1684. Is any work of that character being carried on in the Unithed Kingdom?—Toe, and even in Doblim. 1823. I am delighted to have that, became it is a matter of such interest and value that I hope Dublim will participate in the investigations?—Several universities and colleges in Great British, where research is control on, are not present copying in problems of this

The state of the s

the 15m 1607. So that the question has an infernate relation that the economic condition of the country N-Yes. As the strike of the strike of the strike of the strike of the milk rapply as a food for infernit as the maker of extrema importance to the community at heapt.—14 is, and 14 on the thick the learn.—14 is, and 14 on the thick the learn.

Professor Transpos .- Oth Desember, 1911.

by maything else. There could to be a sufficient supply the before and chaldren. Mother's milk is the of male for infants and chaldren. Mother's mith is the ideal, and after that cow's milk, as bidle treated as noughly. Everything that is done to cow's milk more ce less damages its putritive value. 1609, Parisumistico. should certainly say that restourising is the least homefal, and that it is a nacemary proceeding under present conflitors, but a better thing would be to get mile

comments, our to prove use which having it pastenned.

1800. That is exactly the point I wested to sak you. Do you than it would be a more Heal style of things if milk could be preserved from infection and used without pastennesson—Certainly that would be the

milled 1631. The statements you have made in regard to the experiments that have been carried on deal in some imbation of milk to the power closes of people drying is better than parteurising. Takens the conditions in is better than pasteurising. Taking the conditions in in which the poor live and have to row their families in which the pior live and lave to rear their families, died mills would, I below, be belate for them than pasteerised mills. The children three on it, and it is not limbt to the same degree of contamination in the beans any asserting of the contract of the latter of the man died in a latter of the same boxes contamination as liquid and ladits to the same house contamination as liquid.

1632, Str Jone LESTADORS.—What do you mean dried malk; under what name to it commonly known?— Dried milk. It is only deprived of its watery contents. 1653. The Opening, .- Has any experiment over been carried out with the feeding of infants to determine countly what proportion of its nutritive qualities are ex-tracted from dried milk as compared with fresh nulk?—

is, on the whole, a far better article of that for the bables than meteorised milk. In Letcour, it is now guits a rare thing for them to give anything else than 1654. St. Joux Lacreman.—Where and how so it pre-pared?—Most of it is prepared by a process which i known as the "Just and Hatmaker process." Thi bested metal receiving the milk in a small stream over a bested metal revolving cylinder and exposing it for an instant or two to a temperature of about 240 or 250

notice.

1656. Miss McNent...Do you think that it affects milk more than the belling of it door?...It is claimed that this this short exposure to heat has not the same effect. as boiling, and those who use it on a large coale for infants have found is rectirable to boiled milk. 1636. There is another kind of dried ralk made to Chestare, do you know st?-No. 1637. Do you happen to know saything about the ex-screence of Icolong infants with dried milk in Maryle-

1638. Sir Jone Lewissen, Are the organisms and spores destroyed?—It is claimed that that is so. 1839, Dr. Mocessan, -B door not interfere ve much with the autrative value of the mrik?-Apparently

1640. And is at ready for one with the addition of water?-Yes. I have used it at various times, off and 1641. In your own bone?—Not exectly, but some-times I live in the laboratory and use it, and I and goy assistants found it very paletable. We need it for every

purpose for which we would have used ordinary milk. that is, for porndge, too, and coolong.

No Jour Leverators.-Is it perpered in Dub-1845. The CRARGEAN.—Have you may Size what the find produced from dried milk would cost per quart?— It is a 18th dearer than ordinary milk, but it is the costly than profounced milk. I do not county know

the cost, but a statement has been guidalized by the Medical Others of Health an Lorenton, who says that it with posturious rails. They shall have covered for with posturious rails. They shall have covered forther of pastement rails. They shall have covered for some mit that to the poor people at cost piece. The con-lides of the poor people at cost piece. The con-traction of the contract of the con-traction of the contract of the con-traction best way to use it was to make it into a paste with

water mayby beling, and then to sold some water effects and the part of the control of the contr

1848. So that the milk is not equal to ordinary clean, pure milk from a healthy cow?—No. 1849. Lady Evenum.—You look on it as next heat?— Yes, for children living under the conditions in which

the poor live, with the milk in danger of contemination, 1600. In fact, for the poor children you would perfor it to whole milk, owing to the conditions under which the poor people keep the milk?—Yes. 1601. By O'Burn,—If a tin at 1/5 makes less than gallon, is would be more easily than ordinary milk.

Miss McNema.—It would cost about 44d, or 50, a Mr. O'Berger,—Poor people buying amali quantities

sir. United and proper toying small quantum pay quite 5d. a quart. In that form of mulk easily adultosted?—I think so. That is the chief drager. In Leicester, they have an additional amount of added in the course of preparation of this milk for believe. Thus is a manufac of the half cream dried milk bebies. This is a sample of the balf oream drie direct from the factory at Guilfeed, Surrey. Leisenter milk is sweeter. 1632. Prof. Merran.—What kind of segar is added?
Ordinary cone sugar.

1603. Mr. O'Benev.-And you use ordinary horling 1654. Il it was manufactured on a large scale, do you

tion. It is was manifestated on a tage sasts, so you think it would be more open to franchiche than dedinary milk?—No. I do not think it would. You would be desling with a limited number of reliable firms, and the most I think that would be deen would. be to add spear, or requibly artificial fat to separated 1655, Sir Jone Lesensons.--It would be easy to de-

test adulteration in that?—You could find out if sugar were added, and the kind of sugar; it would not be quite so easy to determine whether foreign fate were BER. Mr. O'BRIEN.—As ecco as one begins to get any article of food within it waitly meaninement and worldty need, you will find hist people will try to get something that will sold to the weight or built, and it ample life that which you have in your hand necessary or unded becaust—You might have propositive solded to p—der hallowed, beary minored selfem-but betty could

1697. I think that as a very important point?-- I have thought of that, 1659. Do you think it would be ensur to detect than the adulteration of batter by added fate? I believe it is very hard to detect added fate?—Yes. But up to 10 per cent., I think you could not detect added fot readily.

1699. You think it would be easier to detect adultion-tion in an article like thes?-You, as reparts the stand. but not so easy regarding the substitution of butter for by other fal.

1660. Mr. Witson.-Are you owere whether any on permant has been made with regard to tubercular milk peased though that process?—I have not. 1661. Would the teherole bacilli survive?-I three

1662, Miss McNarta.—Have you seen a child brought up an dried milk?-No.

1663. I have som one brought up with great ever in the County of Kildove on dried mulk, and the shild developed riskets. I may say that all the hygiente conductors in the house were satisfactory?— Appeles Collegence in no access were become our from has to believe that came against theoremies of others. Would you be propered to guarantee that the child you mention was not fed on anything also? Moss McNutz.—In this case I cam. 1664. Mr. O'Enris.—What is the cause of rickets?

-14 do not thank it is really known.

1866. Sir Juny Linerauve.—Have any caperments been made on the feeling of young animals with the direct wind military. 1694. No regular inhoratory concrements?-I do not

1867. The CHARMAGN.—Is that dried milk to be had to Duklin at present?—It is to be obtained from the Junior Army and Navy Stores, and also from some of 1008. Se Jean Lerratore.—It is not in common use in Doblin?—There is a chemiat in North Frederick Street who appears to sell a fair smooth of it. When

our supply run short we got in there, and he was selling at regularly. 1960. Mr. Wilson.—Would you be propured to re-commend dried milk in preference to pasteurised or contensed milk?—Xes, for peor people. 1970. The Chantanan.—Becurse of the case with

compared to the liquid milk?—Xo.

1671. Mass McNaras.—The poor people would not
buy a tin at h. 26.7.—There are smaller true which are 1673. Mr. Wilson.-The demond would be for small

quantitizes.—I think that where the poor people could get an article that would last for a week, the could get an article that would last for a week, the could get an experiment of the proper arrong hancey to keep the house for a week on get a rough among to keep the house for a week of the property and keep the could get milk for the week for a certain some to would be much saces filely to pay their down than to be giving a passiny or teopense every day. I have to be giving a passiny or teopense every day. I went into the question that the property of the property of

1973. The CHARMAN,-Turning once more from milk had everage of the damper to the public health arising from the germs of dresses being conveyed by milk m from the germs of themses being conveyed by still me a figural form, and it has been suggested that it would be desirable that these who see copyagd in purveying and handling milk should be subjected to the Widel toot, so determine whether they are carries of the typhed benill?—It is rather beyond my line to extend the subject of the state o

press as operated on that point, but I would serve on 1674. I take it that you would strongly support any presentations that starnes would suggest for the purpose of rendering milk summers to discuse grows - Yes,

onything procueable. 2675. And you have already expressed the opinion that in order to source the best possible results from hypid milk it should not be necessay to subject it to any treatment that (n) used its nutritive qualities?— Cas. It ought to be possible to obtain milk in a per-

forthy proc condition. I have no doubt it would add to the cost.

to too cost.

1970, De you thrule Uast the addition to the cost would be compensated for in the properties that would be recogned to be reserved in the milk; if the party could be concerned to the milk; if the party could be concerned.

1987, It is leaving treesency to give the alternative properties of the content of t

1678. And that even if the Public Health Authority the district of world be weeth whetever incommentation might wise to preserve the milk, as far as possible, from infection and extramination of the milk. As far as possible, from interms of the milk. They don't come
the milk. They don't come

within the scope of my actual work, but I think that licatic send in mot quite so harmless as many people suppose. I also think that it is a very group pity that so much of the milk of the country is turned into butter.

A certain amount of it must be turned into hutter, but trenting the greater part of it in this way is robbing the country of a nutritive article in its natural condition. 1690. Mr. O'Brins.—The nutritive qualities of milk persons. It is supposed in my part of the country (Lemorick) that when persons come to be children they have got beyond milk?—My remarks apply mee, of course, to minute and owners rightof course, to minnte and growing tighten than to sinhis who can more readily find substitutes.

59

1881. Do you think that it would be of great value if it were brought hume to the shiften at the schools that ics, with a little milt colouring in it, is not cut-flience at all, and that smill int—ten, without 1669. Because what I have noticed in the country is that just at the time when boys and gate put to majority they leave off nells, and in the case of grid maturity they leave off nells, and m the case of gride who have mister work they remain in the house and practically live on stowed tas, and become very dath-state post at the time when it is most important that they checkle be fall. This is due to the last, I think, that they have zevere been toold that multi is such a fine

that they have zerve been told that milk is such a fine article of die for everybody.—It is lengthy through approxime that he people use bread and ten instead of permity and milk. It would be desirable that they should no back to the porridge and milk.— 1000. We find that where we get them to use pur-ridge they are the relief cots, because it is no equilible under-freewordly. I sympathies with this. In my experience, rolled outs require to get twenty manufact

caperioner, Rama uses reporte to get the any amount pool heriting at least, and thirty mixture is, I think, all the better. In the old days, portidge mode from cotton mod never book less then an later.

Mr. O'BRINN.—I had raihter a cuspus experience in my and people generally on a most extraordinary three There was a labourer of mine who come on as rather a count workman. He had been in the army and in America, and was a had lot in a way. He get into a way of living almost on porter, and nothing class. From the

1684. The CHARMAN.-I take it that you enterteen the view that it would be a wise and economic use of public funds to provide, as fer as may be necessary, a liberal supply of milk for the labouring population? I do if provision could be made to supply them with sufficient milk at a price within their reach, it would be a most desirable thing. 1685. And it would be your desire, if it could be

1085. And it would be your dearn, is as some from

the cord.—Yes.

1984. And is far as you are awase, all the processes as which mill at subpoint at the process have a subject of the process o he a very good substitute.

1688. There is more cheary stuff at the goet's milk?

I don't remember the relative composition of the

1609. Dr. Mosaman.—In order to have we adequate sails supply for the peer, would you recommend musicaged depoint—I think there ought to be depoint whether owned by the separational authorities or not. In

1890. The extensive manufacture of butter rauses a scarcity of malk?—Tes. I have keepl there is a

scarrey.

1891. Mr. Wilson.—Will you tell us the octual
places where you bound the senserity calend?—In the
Countries of Monighan and Longford, but in the lattic
country I hand also that the tendency to all make in

the creaments has decreased, as the price of botter 1092; Dr. Monaman.—It is estimated that there ere a million and a half milleh cown in Ireland, and rught not that to be sufficient for fore end a half railien people?—It ought. The multi-nows of Iro-

land don't give the maximum supply.

1000. Mr. O'ERREE—The yearly average in Lesland as any 440 painters—Them could be be no received of 00 or 500. White adapting would preclaimly see the property of 100 or 500. White adapting would preclaimly get over 1000. You have be precise ecft of quitness in the year lesland years are made south during por. That is taken you can make south during por. That is understood with a consumery—of patients in Sect. 1000. Lady liversoon.—Have you found any question of the consumer conductive makes a lawy and days operations.

MOR. Lady Evensors—Have you featured any centrol of the control of the control of the control of the control distinct of the control of the control of the control of opinion as to the network without of bestermith as of the control of the control of the control of the follow valued—Coly infectionally instruction as the late the masterial solds. If it is very experienced than the masterial solds. If it is very experienced the late the masterial solds. If it is very experienced the late the masterial solds. If the very experienced the late the masterial solds. If the very experienced the late the masterial solds. If the very experienced the late the masterial solds. If the very experienced the late the masterial solds. If the very experienced the control of the c

right central surrous, in organ to seem a usern service of dist.

1098, Prof. Morrous.—What, fait would you rengand as a substitute for the burder for that, as removed:—as a substitute for that, as removed:—be given very marry that right properties of determination of plantation to sure dipartitute.

1099, St. Jones Laverassen.—Did I understand you for recommend enrichfulner?—Use, to recove the gross

imposition.

Mr. O'Binnes.—I kram people who kaop a hard separator in their boxes to get red of the green mideo. I row my discovered to the red of the green mideo. I require the mideo. I red to the red of the

1700. At any sate, you would not look upon it so unders?—I both upon it as an article that contains good materials, and it ought to be possible to utilize it as a food. 1702. And with regard to the subtle values you manuface.—Los.

1700. So long as it is not sterfined?—So long so it is not biffed, when these subtle valous become reduced.

1704. Mr. O'Bann.—Yo pasterous separated malk in order to desirely the typhotol gerron would not it desirely the lipode, because that is a very much lower sempestative then belling.—Yes

TRG. It is not issue; than that to which dried notice aspect?—But those preparing dread mills doing that the fraction of a sectod to which it is subjected does not urgan it.

1105. Mr. Wilson.—Have you met with the brand

1706. Mr. Witkows.—Here you not with the brand Youce milk, which was proposed under a heating process, the still being passed over a het surface for a very short time?—No. 1707. It was highly craditified, and they were uning this milk for supplying places in the bropose from Hol-

land. I tried the mass myself a year sin a tain out out of its senand quite existenced—I think I awe that it the International Hygienic Exhibition at Drondon.

1708. Then with regard to the Acabag processus, you think that thay all more or less injure the dicterior value of mility—Yars, to some derro.

1700. Does the same apply to the chilling of milk?

—No, I do not think in does.

1710. Prof. METRAM.—Not even freeen milk?—I do not think so; it running to be proved. I am marely varies an occurion.

not think so; it remains to be proved. I am morely giving an opinion.

1741, Mr. Winson,—Taking the codinary market milk, essuaring that it is good in quality as a whole, and that there is a moderate outpily, would it not be dangerous to decrease the bulk of the supply by

date they trees in a moderate originy waster to be a territories. The year restrictions deemses the supply it is excellent peakers whosh mould have to be uses, to it in the peakers whosh mould have to be uses, to it out in supply it in good som. There not wen different questions to be frost. One are the purity said the other is the sufficiency of the supply.

1712. Dr. Moorman.—Yoo have given u. a pool 1712. Dr. Moorman.—Yoo have given u. a pool 1712. One different to the treatment of or sufficient is not reasonable flooring in the treatment of cortain dis-

is not used by dooders in the treatment of certain site cases—Yes.

1738. And this would be an additional recent why milk should be pure?—Yes.

1734. Have you say itom whether there is any process supervision of the milk supplied to berytakin where these discusses use breaked?—I have no knowther the discusses use treated?—I have no know-17318. Sook a thirm would be distinable?—I think so.

leige on the point.

FIER. Such a thing would be desirable?—I think so.

FIER. Such thing would be desirable?—I think so.

FIER. Such which would be desirable?—I think so.

FIER. Such a think would be desirable to the body

and the such as the such so the defect of pipods at a lower

degree of hard—I mass, postisally, potatorization?—

FIER. I has been only with regard to bolded mill;

FIER. I has been only with regard to bolded mill;

On what you subject mill the less sharm yow would do.

TIER. An assufficion organy of mill; in additional boar of these me introduced in the odds steept.

to which you subject with the less herm; you would do: ITHS. An arménication oppy of make in altithood ITHS. An arménication oppy of make in altithood You.

ITHSA, PROJ. METERAL, the is then by comprehtions do not be a subject of the subject of the time, do not be a subject of the subject on the railly whiten you give there the body best you get an disgroom ground.

In the property of the subject of the body and below that of the dash person of the betterns there

and below this of this datal space of the hostern store in a chance of increasing the hosterian time smittle-fit in quale possible.

I requise possible.

I requise possible area of the charter of the charter of the last tenth of enforces in the toward of the last tenth of enforces in the toward of the last tenth of the charter of the last tenth of the charter of the last promptly of the openior, however, that it is more to be interfected to the lasts of creed doods.

I'll Allow Morters—W. We can take it pure about 1721, Man Morters—W. The cree that it is more than the last the charter of the last of the last of creed doods.

1721. Miss McChris.—Mr. Whice nabed you shoot 1721. Miss of separated rails. Do you that that the substitution of other fair would make appeared with mostly define the shifteen—I should not recommend the substitution of the shifteen of the substitution of 1721. Lody Evenan.—Not a should not recommend the substitution of other fairs. The shifteen issue of other fairs—No I i should confine it to satellite. 1721. But with the shifteen of that separated milk

123. But with the addition of fate, separated milk is a metal article of reed?—It ought to be possible to make it a metal article for adults.

1234. The Cammon.—In these any other point, Dr. Thompson, this you would wish to direct the attention of the Commonwhile to?—I think not.

The Cammon.—Thenly you.

#### Mr. H. C. Berry countred. suspector under farms and in improving their surroundings generally?—

1705. The Canatana—Tors are an impaction under proportion of Western. We recease of your Rosed is great basic to incidence for purposes expected with great basic to incidence for purposes reduced of with 1707, and among the purposes for which horse are of them brighting wherein core are legal—Yes, the creating and important—index greaters, if the potential proposes of the purpose of the purposes of the control to development—index greaters, if the potential mind of impreventors is davisiquing or submition of the development of the best work and it would be a suppression of the submitted of the terminal proposes of the control of the control to development of the 1705, 400 recogniss that in the threed consumers of the control to development of the three three of the 1705 and recognise that is the threed consumers of the control to development of the control of the 1705 and 1705 an

The La when pertunder part of the country do you and that development agoing a most applity—The bottom of 100 date and the convergence of the country of 100 date and the country of 100 date and the part of Leithert.

This, In dany shadests, is small because the country of the

1933. Speaking generally, do you find that those who make applications for loans are willing to conform with the requirements laid down in this Order?—Not at the cutect, but they are now more willing to adopt the

regulations.

1784. Owing to the educational process going for-word?—Xee: they are the results that have been pro-duced by adopting those regulations.

1795. And you find they are more readily conforming

to the conditions recotioned in the Order?-You, social

the results procured conversor. 1780. They have proved useful object become which have been corrusomage—Tes. 1787. Does your Board impose any conditions in re-gard to ventilation, light, and air space other than those embedded in the Dubries with MRR Stope Octor—No. 1738. You are satesfied that those are sufficient?-

Yes, we have adopted them. 1739. You have adopted the standard laid down in the 1740. You issued on this standard being reached in all buildings for which you grant hears?—You, it is im-

1743. Are learn ever granted for the purpose of haid-ing stemastics?—Yes, under the Land Law Act com-penses can obtain town for building greatments. 1742. Must they be registered companies?—Yes, 1748. Hen that been largely availed of?—No, only

one company obtained a loss.
1744. Was only one ions granted for this particular purpose?—Yes.
1745. Was it in the North or South of Ireland?—In 1740. Will in the County Cown.
1740. Mr. O'Burs...Was the loan granted or saked
to 2...The loan was sanctioned, the work corried out,

and the money issued. 1745. Was there only that one?-There applications, but only one was proceeded with.

1748. The Courseau.—To what do you attribute the

feet that each a finite number was processing term, as compared with the number of applicanted?—The local this case was approved by the Board, but I do not know why the other capit did not got the learn. 1769. Nothing with request to your administration Provinced them being carried forward—No. 1710. The period for which looms are granted is fairly

is for a certain class of borrowers. Some leans are made at the rate of 5 per cent, for 35 years, 1751. Those are for works of a permanent character?— There are three classes of works; alsied them borses.

and buildings, restousables or examing sease as consequently the planting of frees.

1702. When you speak of courses, do you break tensits in whom loads are now vegled under the LandCommission as you treat owners in feel—On, yes.

1708. You regard them in the same position as comparent in fee?—Except that the amount of the lean is re-

1754. Owing to the scouplty?—Yes. 1758. But there is no difference in the conditions

trade which the loans are granted to the tenant owner under thick the loans are granted to the tenant owner under the Land Act and an owner in feet—Name. 1700; Save and except that the loan granted would

1756. Save and except that the loan greated wound not probably be as great?—Yes. 1757. I take it that in due to the diminution of security by reason of its being liable to us annuity?— 1788. I are that companies are not granted loans on

1788. I are that economous are not granted been an equite the same terms as ordinary individuals.—No, these is a mode of respansent slightly different. In the case of this exchange for some ordinary between the rate charged is sufferent should be considered to the case of a company to diminisher. The payment outside of one-fortisch of the amount of the lean and by per cont. on the out-standing the control of the case of the case of a company to

1750. What is the minimum loss granted by your Board?-435 to tenants and 450 to owners. 1750. Again, speaking generally, what chos of owners are applying for booss now as compared with, say, a decade ago—are they smaller or larger halders?—They are very mixed, but they are bootly tomat pre-

1763. What I want to get from you is this—whether or not the small holders of had now are more anxons to improve the conditions under which their stock is kept as compared with the interest manifested by them exvious to their having become owners of their hand?-

1760. The number is increasing?—Yes, 1760. And now you are dealing with a larger number

1788. And now you are decling with a larger number of small valuations possible them of only previous period of your reformations from the state of only previous period of your reformational only. The state of your reformational only and the state of your looks, when granting loans for the purpose of cow layers and such thangs, that there should be a reformation where supply within case; excellent—the Board mande that this matter shall be investigated, and if we is swearfed that there is a reformed to the state of the s

if it is reported that there is a sufficient water supply shout the pince, the Board does not inquis on a special water supply being laid down to the broke.

1765. What they do receive is that they shall be saids. fied that there is a sufficient water supply for the needs 1766. Do you insist in all cares on baying a compress.

1708. Do you make in all eases on being a concrete floor had down in the owe-dependence on manner of floor had down in the owe-dependence seems reportly floor is sufficient, concrete or neghtals. We should perfect concrete, but the price would be prohibitive in the case of small furness. 1707. I suppose the difficulty of procuring suitable and remove it difficult to have the work officiently

irred corr—nes. 1768. Mr. Wilson,—But you insist on the floor being

2769. The Chargeney,--- An impervious floor always?---1970. Do you make any provision for drainage and assume pits?—We must on a channel through the byre to take away the liquid manure and being carried, so required by the Dakets and Coveheds Order, a cer-

drain or pit.
1771. You always insist on that?-Yes, that is biffroqu 1772. Is any provision made as regards the formation or location of a manusc pit?—Not unless the borrowers

sek for it.

1778. I expect the particular instances in which applications are made for this purpose would be very

1774. Have you ever, in your experience, found that any borrower made it one of the items for which the loan would be granted—to build a minute nit?—I don't cometimes afterwards carried

cot, in consequence of improvements generally, - a ....
1976. Do you ever advance maney for restoring existog bulldinge?—Yos, frequently. 1777. Bo-reeding?—Yos, and remodelling generally. 1778. And when money is advanced for that pretion-

he purpose, you still endeavour to comply with the conditions laid down in the Duries and Milk Shops 1779. And you also make it a condition that imper-

1780. The same so if the buildings were entirely new?

19th. Do the borrowers, as a rule, object to these oundritten?—They slid at first. They objected particu-lerly to the windows, and some of them objected to the ventilaters. They also objected to the dimensions of cuttle spacing, which they contained to be in excess or 1762, Of the setual nebestites?--Yes,

1783. Do you find you are running up against pro-judice in carrying out these regulations?—Score of them

1786. I can quite understand that, they have con-restive idea. Did they object to the windows on scratire sizes. Did they object to the windows on account of the expense, or for what other remen?—A large number of them appear to object to haven and large number of them appear to object to have a say light in the our house at all. Econo object to the

light in the corr house at all. Scene object to it's gissed windows, but would not object to an aperture closed by shutters. They assumed to object to the 1985. Mr. O'Berre, ... Is that for the daily cows or the fattering stock S... Darry cown. We require some light in the ordinary cattle house, but not so much as the

1786. The CRAIRMAN,—Up to the persons, Mr. Brett, you have been decising exclusively with the loans granted for housing dairy stock?—Yes, 1787. And not with reference to the stock fed for

the beef market?-Yes, 1789 The conditions there being somewhat different?

1780. No conditions are hid down by the Local Government Board with regard to houses that are used for intenting purposes?—No.

1700. And whetever conditions are imposed are the which seam right and good to your body?—Yes. If quare them in that case to earry out the directions under the Dairies and Cowshols Order. 1791. I see that in Linerick you have had a very large number of northestions?—Yes, eleptors.

1792. Stace May, 1929, you have reserved \$15 applications?-Yes. 1796. 13 from Cork, 19 from Kerry, 8 from Tipperary, 7 from Galeay, 6 from Beacommon, 6 from Down?-

Yes.
1704: That would indicate that the majority of applications for loans erranated from the countles where the greateries are in existence, and where the dairy industry is the main feature?—Yes.

1796. It is very gradifying to know that show onsily of amporting the conditions under sity of importing the constront onset warm main owns are kept, and your evidence, I think, is fairly constantive on that point. What other conditions in the Daines and Cowshells Order do you find most ob-jected to by berrowers?—First, they consider the space

1796. Cubec nir space?—500 cubec fact per cow, and they object also to the wickers and to so many resulta-tors. They don't object to the flooring; usually they are willing to put down an improvious flooring of scree

1997. Could you state how many applications for losss have come under your notice which were not carried out consequent on the regulations contained in abandoned by the applicants. 1768. Because of the conditions laid down?-Yes; they objected to it-nine out of one hundred and ten

That is a very small proportion-not eight per cent?—The objections they might make would be such constructed by sught make in the case of other leans where the Board peoposed to lay down conditions; for mstance, the head room in a house.

1800. But the amount of opposition you have met with in regard to this particular class of long has not been generally greater than you have been confecuted with in regard to other loans for different weeks "-Xo. 1840. Here you ever been asked to make say pro-vision for the memorement of milk houses, or houses for the steenge of milk?—I don't understand that. 1800. What I mean is this, do the Board make province in connection with byres for the storage of nellk provious to its being taken to the occamacy, or where private bottor-making is carried on?—In a tex-

cases opplicants included the building of the 1903. Are conditions laid down in regard to that particular hundring similar to those in the Dairies and particular mining summe to mose in the Dalla and Cowsheds Order—for example, restrictions as to vantilistics, impervious floor, and the discussions of the house?—Yes; and cartain restrictions as to drainage.

house?—rest and arrans restrictions as to disausage.

1804. Nobling beyond that?—Ro.

1805. No portnessing plaster presented for the dressing of the walls medic?—In a building of state truth the Board always provide for the plastering of the the Bould having proving me the pleasering of the infernal walls with cedimary planeder. 1998, Do you think, Mr. Brett, from your profes-sional knowledge, that any modification of the Dutries and Complete Drive to precusing?—I don't their than

say modification would be desirable. There are some possite that might be made cleaser. possits tene might to man covere.

1800. He you believe that any medification of the
conditions had down would in any degree ingrease the
number of applicants for feam's No. I don't think no;
I don't think it would affect the question at all.

1808. What I want to be perfectly clear about is this, that the conditions and down are not problems. 1809. And don't deter those descring to improve the

housing of their dairy stock from carrying out im-provements whosh they might be disposed to do under less imperative conditions?—No: I don't think so: it does not affect them. 1810. With regard to drainage, have you always been able to mature a estimatorory cutful from the cowbyres?—Very seldom one we get a really satisfactory permanent outfall. We have to make the best we can of the local discounstances. 1811. Does this increase your difficulty in dealing VIEW ?-- Yes. 1812. I suppose this difficulty of procuring a suntable cutfall for desirance increases the expense?—Yes, 1813. In some cases that is about the only diffi-

culky?-Yes. 1814. Do you find borrowers willing to cooperate intelligently with you in making sultable strange-ments for the disposal of sewage matter?—They rother

agest to making the draws one the outfall as far from spece to messing the draw that the outside as far from he better as we would like.

1816. I take it that is largely on account of the ex-

1846. Do you make that an importance condition? What I mean is, would you withold a certificate at the completion of the work in order not to enable the final instalment of the lose to be made if the horoway had out the instructions regarding distance of the navage?—Yee; it is usually made a condition be-iner the final matelinous of the loan is paid. 1817. See Josen Laveranove.—Is not stary feet the hunt?—That is a provisional limit; there is no authorsty under the Cowsheds Order.

1818. Do you insist on 60 feet at present "-Yes, if 1819. Mr. Campuna.-Not become it is precisery,

1820. Lady Evenano... You referred to Article 0 of the Cowskeln Order, which states that "army cowkeeper shall provide and keep in or in connection with bisper shall provide and loop in or to connection with overy convoled in his occupation a supply of wider authoria and authorial for south purposes as may from time to time the restouchty accessing." Earth you go to be say that you think there might be frustion be-ween your Beard and the agridacy and standard had to be the south access to the proposed standard had also the contraction of the proposed standard had shall be the south of the proposed standard had shall be supplied to the proposed and also the con-tains the standard proposed as a standard had shall be supplied to the proposed as a standard band which the standard proposed as a standard band and the shall be supplied to the proposed as a standard band and the standard proposed as a standard proposed as a standard band as a standard proposed to the standard proposed as a standard proposed to the standard proposed to the standard proposed as a standard proposed as a standard proposed to the standard proposed as a standard proposed as a standard proposed to the standard proposed as a standard proposed as a standard proposed to the standard proposed as a standard proposed

whether the Order really resource a distinct water systlable on the farm suffices.

1801 The Charactes — For four there is some ambiguity in the Order — Thure is an obscurity about particular article. and definite Innguige, so that the borrower might know exactly what would be required of him in accusedion

with this particular provision?—Yes, and not only that, but if you mists upon a distinct water supply being laid to the cowahed or dury it might be beyond the means of a good many small formers. cast of a good many small termers. 1833. I understood you to say a little earlier that it only necessary that you should be reacoustly saleney not in some cases satisfy the local certifying

1804. You fear that after your requirements sen met by the borrower the officer of the authorth) may come in and require some further dereleptated of the water supply in order to come up to his perfectler standard —Yea. his particular standard?—Yes.

1893. And you would suggest that some general se-rangement should be made, or some general provision. should be inserted which would obvious the possibility of duel inspection and maned dominous?—Yes, 1899. I can store understand where the difficulty 1890. I don quite understand where the difficulty would from in, because, shrivashy, on these condition, different views would be formed by different states where we condition of principal and if these were a condition of opinion, and the state of the control of the condition of the control of the control

necessary. I am quite sit is only, not because it is necessary. I am quite size the Beed of Works want to have this question settled definitely?—Yes. 1899. Mr. Wilson.—His a case erison?—Not in con-nection with the Beard of Works.

1830. You want to provent it areano?-Yea.

1831. The CHAIRMAN.-The Board of Works enurous to every out the Orders of smother Board which is responsible for the public health, and it wants to have a sledinte role had down which will be a puide to shem?—Yee; that is what the Board wish.

1893. Lady Evenana.-I take it from your brief of evulence that you are also afreid that the local autho-rity may tele it too one, and allow the manus near 1833. Do you wish to have a definite space fixed?-

us. 1934. Between the manusc heap and the cow-shad? 1805, So Jone Legenment.—Are loans issued for

cow-shele or during or milk stace, supposing one of the three is asked for, without taking into considerathe three is asked for, without taking into considera-tion the condition of the other two suppose a bon is saled for the now-shed, will your Board name the loan for the object saled for without considering the confi-tion of, var, the milk stace?—Yes.

1820. Would there be any objection to Marir taking into confideration the general conflicts, because very often they would have opportunities of seting wistber,

offici they would have opportunities of melang whether, for malance, there was may milk shoe at all, and it seems to me almost uncleas to lend money for the building of a convolud if you have not a safe place to keep the milk in 1—1 don't suppose there will be any storction to that. Would not the

security come in, and is not your Board disposed to hant the granting of loans within certain restrictions at to valuations. Yes. We are hand by prince to at to valuances?——cen. structions as to valuations. 1808. The Challenge,—I quite see what is in Sir

John Lentnigne's mind, but I feel to see kow your Board can must on having uniformity. I am sfruid we will have to try and arrive of that by some other

Sir Jone Levenson.—My idea was that there should be a maximum steadard, that where there was not a noe sufficie our san sourage of home store to a matter for objection.

The CHARGEAN.—Thus is a very complex dual holdrags on which the buildings are creeted, and dual becomings on wheren the terminant are exceeding and in some instances you might find that the occupies of a small helding might be resident on that helding, but that he might have a farm healthing on a larger farm

that he might have a farm building on a large farm counts held under different tenance, and the result is less on the security or that some.

So Jens Larranderus—But supposing the con-cloid,
were to be smatted, do the Beard are that in such coarse
there will be some safe place where the nifth will be
kept?—Thay confine thermal yes altografice to the lim.

represents for which the loss is applied for. 1800. You do take into consideration the security?--Yes.

1840. And do you not take into consideration some office matters as to the suitability of the cowoded. They wen't give a loan for a now-shed to be placed at

the top of a mentalan; could you not also see that come provision should be made for the storage of the milk? The CHARMAN -As the moment, I don't quite see

how the Board can do that, Sir Jone Levenson.—It occurs to me that they did

1841. They give the money irrespective of any other consideration but the notes! building that as being put

1842. The CHARREST.-The only condition that you impose is that it is necessary for the holdings on which the loss as granted, and that certain improvements

the loss se greated, and that certain improve which are applied for shall be corned out? - Yes. 1948. There are no contingent conditions imposed? 1844. Mr. Witson,-The

1844. Mr. Wilson,-The new Local Government Board Order came out in February, 19087-Yes. 1845. You say that 115 applicants for loans have

1845s. It was about the time that the Order began to be cuforced?-Yes.

1846. It occurs to me that there must be very mar-1846. It ceems to me met there must be very been, thousands of sheds all over the country that are still

magnitable; our yet suggest any reason why the magnitable; our yet suggest any reason why the number of applications for lease for this particular purpose is es small?—I thank a good many of them and more or less availed themselves of, I dank, see-

1848. Mr. Campuzz.—What exactly do you under-stand by a skdry in this country?—It is merely a milk

counting of a dury.

1949. When a man take for a lose for a dairy what

1850. Is the word dairy used here for combanue has 1851. So that a darry always meens a place for stor-1863. Sir Jous Levraseur,-You have here a Board

of Works Order headed "Cow-houses, cow-sheds, dairies, and milk stores." That is taken from the dairies, and milk stores "5...Th Local Government Board Order. 1958, Mr. CAMPSULL—Don't you think this is very confusing to speek separately of dames and mill stones when you understand them to mean the same

one when you endersears men to mean the log? When a man sels for a dairy or a milk show to find no difficulty with regard to that \$5-No. 1854. Would you approve of a floor being set with 1504. Willia you approve at a most female over man ceitinary orbibbes, and them grounded with far sail send? —Yes. It would be impervious. 1855. Do you find that people object to conceste, on the ground that it produces seem and inflammation in the now's orbites?—Not I have heard any complaint of

1856. Of course, a floor made of cobbles, tar, and send would not be so cold?—No. 1867. Are there any other materials that would not

so cold as concerts?—Some people use bricks and 1818. Is asphalt much dearer than concrete?--It is, think, in many places.

1859. Would you accept bricks that wars grouted with commit-We would peefer to have them

grounds with containty—we would pour to nave seem provided, Wentil brioks be cheaper than concrete.—In world depend on the broad period of briefs, we will depend on the broad period of briefs. If these years and they object to the 850 orbits of the second of the secon

ably and be could cleaned, taking the very minimum?

—Not very much less. 1965. Are you acquainted with the suce of the stands?—You ands?—Los. 1894. The cow will require three and a-half feet?— is, in width. You would require four feet for a alk, two feet for drainage, and eight feet for stand-Yes, in width, walk, two feet for drainage, and sight feet for ing—that would be pessically 42 square feet.

1905. Ten feet high, taking in the roof, would be 2866. If you tried you sould not get it at much less then first.—No.
1867, So that 600 must be the minimum?—Tex.
1868, What do you mean by soying that in Article
1. of the Board's nestee to opplication for loans the substitute of the state of the substitute of the which is more than lowered to substitute of the substitute of the which is more than lowered to substitute of the substitute

\$860. What is the menning of that; is it that no may above that is any use? Do you agree with the space above that is any use? words that in calculating the six apage in a cow-house ee shed, " in no case is any space intusted at a higher er steet, " in to cast to any space as the five to be taken level than fourteen feet above the floor to be taken into consideration "? Do you think that is correct?—

1870. Do you say that the air fourteen feet above 500 is no use?—I think there would have to be some

limit.

2871. You will agree that the space above fourteen feet high would be valuable?—Yes; so long as you do not reduce the width of the shed too much or the floor area occupied by the cow.

1872. Do you think if that was so they would give you the floor space?-Yes. 1973. Prof. Mayran Arising out of Sir John Lentaigne's question, when you give a loss for the cror1874. Do you not think it would be a wise provision that you should insist that in skilling to the byre to

hold the cow, there should be some place where the milk could be stored, so as to provent it coming into the house!—I do not know that the Board would re many power to insist on it.
The Chamber,—We gride recogning the point Sir Jone Lavrasonn. Ton here power to insart or outside valention and autoble accuraty, and why notra addition, require them to have a safe place to store

The CRAMMAN,—All these conditions good then is granter of loans, and they take no contingent liability.

Sir Jons Linstrance.—Indirectly they do, without manning it, perhaps.

The Charanax.—They may any this is outside our purriew; it is for the Public Health Authority, and

By Jean LESTAMNE.—I quite see the position Mr. CHITHELL.—There is a further quadion, that sending milk to consection, and I the practice there to send the milk right off.

The CHARMAN,—I remains that is the custom.

1875. Mr. O'BRIEN.—The practice at this time of the
year in a large number of creamories that are not wholly closed, but are weeking for there days a week, is that they take in the mile from the people and keep,

it in a store, but it is only as un not of grace. was one of the punts I wanted to put to Mr. Besti. Do you supply stock plans for cov-bouses?—No; the bornowers, as a rate, provide their own plants.

1876. Do you have to sanction the plants as being suitable and right?—Tee; they have to be accrutinated to see that they are in conformity with the Board's

requirements.
1877. Apparently, from what you said before, den't maist on having a place provided for storing miR?-No; it is not made a condition of the loan. 1878. Do you make any condition that there should

or measure of measure from a courty—In the case of an applicate propasing to hold a regular dury?

1978. I am specing of a small farmer who says, I wast to pot up a type for my thirty shiry corns.

Would you not see that he can boil a sufficient quantity of hot water for the purpose of cleaning his utensials—No.

1880. Or a store for milk?—No.
1881. Mr. Witson.—I take at that your requirements are the requirements of the Detries and Cow-shell Order?—Tes. sheds Order—Yes.
1898. You adopt their regulations in hulk?—Yes.
1898. Not dept their propositions in hulk?—Yes.
1898. And where they don't key down reles, you key
them done yourselved—Yes.
1898. Mr. O'BERE.—You great the locus so long as
the security for the money is sufficient and the build.

ings are properly constructed according to your regula-tions!-- Yes. 1885. That is to say, if I wanted comey to put a dairy on the top of the Tirree Bock Mountain you would not necessarily refuse http://www.would.certainly

rotuse it in a cear lifes that, 1886. Would you have power to refuse it?-Yes; if the Board considered it unsuitable for the bolding.

1896s. It would be in a salubrious position, The CHARMAN,-It would be subsidious lunary,

Mr. O'Bents.—There might be a consumptive hos-putal up there. Do you lead money, Mr. Beett, for making effage pine?—Yes. 1887. Have you may standard plan of buildings, or do you simply lend out the money after approxing of the plus sensitived to you by the applicant?—If the Beard are satisfied with the design and the security

1868. Have the Board any standard to go on, or do they set ecceeding to the idiosymmens of the mem-bers of the Burd?—They have no standard.

1880. We not they got alone about that nort of thing from the Department of Agriculture; do they seek the assistance of the Department in any way in report to those loans?—Not exceed in the planting of freit

1850. Do they over submit the Department's plan of a cow-hyre to the applicant?-I am under the impreston that a few have been built upon or moulded on

other plan of

and an alternative regarding the class of breid —If an applicant water and asks if we have model plan the Board would probably tell him that boy bad not, but that the Board of Agriculture had. 1892. You offer nothing?—No. 1895. You also lead money for the making of manure potest—Yes.

1894. And there again the Boxed has no idea how
the manure pit should be made?—The inspectors

1894. If a person epphes for a loss for a cow-horn you don't say, "this plan has been adopted by the Department, and the cost is so much, and this is an-

in order to give the borrower an idea of the

1996. What I mean is, that there is no standard laid down by your Board?—There is a model plan for 1996. Are these buildings put up by you imported

1897. At stated intervals?—Yes, necessing as the 1898, Only then?-That is all.

1899. It is not the firty of the Inspector to go down and see the foundstern had?—If the applicant informs in that he has the place ready an Inspector is sent

1900. Supposing no mency is wanted until the work is finished, the building could go on from start to finish willout inspection?—As a rule, the Beard revares the Inspector to see it some time or other duroptima the Impactor to use it seems tritte or either diri-ing the purgess of the work, purhage court than these. 1995, But not at definite stated intervals!—Not as a Clerk of Weeks or an architect would do. 1992, I think I am right in saying that the cottage put up under the Lebourers Anta are imprecied at stated subaryals by the Lecci Government Board In-

1905. Anyhow, it is not your penotice. The cot-lams would be inspected as the work proceeds, as the applicant applied for matelments.

1904. It is only on the application for money that

you impect the boxen?-Yes. the places should be rightly placed on the ground and the Inspector she that when the frondstons are laid up to the dry that olars. Inspectors corretines visit the work carpally, if they happen to be visiting other works in

the beality.
1996, B is not part of the regular rootine of the nipocitors?...No.
1907. You have nothing to do with the cottages
noted water the Labourers Acts?...No. Labourers record under the Labourers Acts?—No. Labourers cottages see also pot up by the Board of Worley.

1998, But not under the Labourers Acts?—No.

1908. If I, as a farmer, wish to not up a cottage to home one of my labourers, you would grant money for that purpose?—Yes,

uan purpose -- 1es. 1999. And that building would be put up under your surervision -- You. 1910. But only as I wanted the money for it?-Yes. 1911. You bern no plans for such things ?-We have stemotyped plans for simple cottones. 1982. In connection with the cetters for which you

1992. In connection with the college for which you have a plan, a there as pure rises are the harmony of milk's—No; not in any labourer's college.

1923. Many of these labourers, as you know, peobably lossy a cow, and sometimes low, with the assistance of the future, on the cond and, will a good many of them send their rolls to the commentarion—Non.

1924. Eyen when they have only one cow, they fire send the bulk of the milk to the creamony-a

callon, say?—Xon. 1915. And that milk is sometimes knot for three days; in a laborage's cottons there is no providen for

1916. These cottages have a lander?—The sample de-igns conficin farce rooms, nothing more.

1917. And if I were to sak for money to put up wach a cettage for a laborator, would you refuse to grant if to use if there was not a proper supply of water about 1918. You know that it is one of the great difficul-ties in my part of the country (Limerick) that these cottages are put up without any sect of provision for water, and that the woman of the house has to walk

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half a mile or a mile for water. You would not refuse a grapt on that score?-The matter is considered by the Board. I have never heard of a onen being to the Band. I have never hard of a saw being stated on the ground alone.

1990, Br. Moomerut.—When a sase makes an application for a lose, has be to subsent a plea of his premises?—The courses use generally required to empty plans of the particular week contemptated.

1993, Prof. Mirrosse—It does not give an size, of the leading relative to catising buildings?—No, essept

in the case of seneral weeks extending over different parts of the persuase.

1921, The Charman,—Has your Board, to you buestedge, ever refused a loan on an application for follows to entarty you that the water supply is adequate

for the purpose?—I can not come of any case.

1983. No difficulty arises in that way?—No. 1963. Six Jone LEPTAIGNS.—In the case of an application for a loan for a cow-shed, if the horrower does not provide for adequate dramage, you refuse?—Yes. There must be adequate dramage and outful). 1924. If you do that, would there be any objection to adding that there should be some sale place for the storage of mfk?—I don't think there would be.

1925. Mr. Corrent.—What do you understand by
a "dutry yard"—A yard in connection with town sounding a milk house!—Yes 2227. On the other hand, if you take this Order it is every occupier of a dairy wherean my cattle are ept." You don't usually keep sattle in a dairy!"

No. 1998. In the Board of Works you have no definition of what a dury yard is 2-No. 1920. Mr. O'Banes.-Do you not at all with the

tion I know of relating to that Order was because so many farmers were objecting to the glassi windows the Board saked the Local Government Board 1980, Mr. Witson,-You have power to make leans

1981. Is there any limitation to the onousl amount that you are free to lend; for instance, if you got five

hundred applicants to morrow, would you be able to lead the money to them all?-Yes, the Transport 1902. You are not dealing with a limited grant of so much a year?—No.

The Commission then adjourned to Menday, 18th December, 1911.

# SEVENTH DAY, -- MONDAY, 1178 DECEMBER, 1911.

### The Commissioners met at No. 5, Unner Costle Yord, Dublin.

Present :- P. J. O'NEILL, Esq. (Chairman); LADY EVERARD; MISS MARGARET MCNEILL; Sir John LENTARONE, P.B.C.S.L.; GEORGE A. MOORHEAD, Esq., P.B.C.S.I.; ALDO WILSON, Esq.; DERMOD-O'BRIEN, Esq.; Professor A. E. METTAM, B.Sc., M.R.C.V S.

S. W. STRANGE, Esq., Secretary.

Losy Destricts commed. 1981. The CHARMAN,-You are good enough to take with the other breeds, you have been able to increase to interest in these questions which the Commission are inquiring into with reference to the milk supply for the poorer clauses in this country?—Yes.

1984. And as a result of your observations, have ye formed some opinion as to the method by which this out be most recommonly and efficiently improved?-

1986. Do you believe that an improvement in the breed of goats would largely conduce to the production of milk for the cottagers throughout the country?—

Ten; I surfainly do.

1996. And I suppose you leave something of the
militing properties of the matrix bread of gustar?—So,
because I keep them repeal to by and see what one he

1600.

1867. So that you can speak from practical experi-case of their multi-producing powers?—Yee.

1968. Here you also, with the Joycet of improving the bread, introduced other beeds into the country for the perpose of norresing the milk yield from the goat 3-4 have.

past — 1 alvo.

1980. And have you discovered that the introduc-tion of fresh blood and new baseds has been productive of the result you darior.—Yes. In the Aris meet of the goals are crossed with my herd, and thry give nesse milk and continue milling banges then the ordinary ish goat. 1946. No effort has been made to the recent past to 1946. No effort has norm mane in one recent pass or prove the bread of the Irish goat?—No. 1941. What foreign breeds have you introduced for a purpose of indusing new blood into the goats in the purpose of indexing new blood into the gow this country.—The Swiss, the Poggrahorg, and the Anglo-Noboan; but the latter is not wey successful. 1942. Have you found that as a result of crossing

the milk of the common Irish goat?—Yee; and the period of time in which they are in milk. 1943. That is rather an important consideration?—

1944. And does at in any way increase the size of the beauty—Ees: and they are short-coated instead of loup-coated, which is much element for milking pur-1945. Have they the same love of freedom so the Iriski goste?—They do as well tethered as in the

1946. Of course you are aware that a strong the custs against goals in the country districts, on secount of their predatory habits - Tea. 1947. You tell us you think that their mile-producing powers are not considerably restricted by reason of thair being bound?—I have never brosed them, but I was told by Mr. Holmes Pegler Put il did not. 1999. It would populative them if their habits were improved in regard to their naughbours' property?—3

goal will always be a goat, but if they are telbered that can do no harm. they can do no basm.

1900. Have you kept any record as to the yield of
mith produced by the old sumproved animal and the
new coss-bred type 5—Yes; I have get them down

hren.
1995. Will you kindly give as the revalit.—An Anglo-Nobian, "Dakey," four years old, kidded 6th Juno.
1995. See Jan. June to 15th November, 144 days, 352 [18-6]
of mills, or 24 the. a day; an Anglo-Nobian Swins.
16abitinch, four years old, Middel 6th June, from
16th June to 15th November, 350 lbs. of mills in 16d
days, or 28 [18-6 a day; "Mallaba," in; years 4th. sta state to see revening, our set. C. came to see days, or \$\frac{1}{2}\$ [be. a day; "Matilda," six years old, hidded April (by Barker Black Back, ex-pore Irisb), from 60b June to 15th November, 162 days, 180 lbs.

of milk, or 24 lbs. per day. My man naw has milked the afternoon in height her, and she filled When she came to us the difference very twice. milked the afternoon a quart measure twice. When she came to a surf measure twice. When she came to a freited and refused to feed, and the following even freited and refused to feed, and the following feed to my feed to freited and retrieve so trees, and the man goet in my ing only give liq quartes. There was a goet in my locality that my man any milked, and site gave fre-quarts a day. In the Ards two quarts a day in not considered very good. Mr. Helmos Pegler thinks two quarts good, three quarts very good, and saything over that ecosphismal. "Pure Link," five years old, kidded in May, Rh June to 18th September (and then the good word of the, 192 days, 165 lbs. of milk, or should It ibs, per dor-

per day.

That is the unimproved type of goat\*—Yes;
comined to be a rood million. No amount of and the pomilaed to be a good millior. No smooth of feeding of the common first goat will prolong her million; it will berease the quantity the gives. Pur-trish goats milk well for three months, and are usually dry five months after leading. There was neether cross need us by "Monaic," and she only dried for one meeth in two years, baving two lots of kids during that nered. The owner fed her partirologly well, and at this period. The exacer as wer personner, and a considerable percentary less, but he required the milk.

1962. That is entire an ideal type of goal, one that would only be dry for one month in two years !- You out get them to milk all the year good, but they on get them to make all the year lones, our many re better to be dry one or two months before kidding. 1958. One of the great difficulties of the gost supply

1934. Of course, the ordinary cottagens do not keep relays of goats to consen a continuous repptys—No. The freeze goats will best kids at various times of the year and not, like the Irish goal, at stated times. My goats had lads in January, February, March, April, May, Suor, and July.

Ağrid. May, Jone, and July.

1936. Obreasily the receiving has been productive of very visibable results, in view of the fact that it is commanded by the productive of parts in the acceptance with sower military of the productive of parts in the acceptance with sower military on the productive of th 1967. You found the goats' milk gave satisfactory results?--Yos. There was a mother and baby in our

district, both of whom were very ill, and they took gosts' milk and recovered. 1938. Is it a common experience that children are brought up on goats' mile in your distinct?—Yes, a great many in our district. great many in our marrier.

1939. Are the people willing to eo-operate with the object of improving the breede?—They are very been about it; forty-seven goals are coming up every year 1960, Wife the result that three has been a general improvement in the broad of goals in your man

neighbourhood?-Yes. naighbourhoour-res.
1961. And the cost has not been so excessive as to forbid the belief that similer results could be obtained. motivate distincts with judicious management and a modified expenditure of money?—Tes. I charge is, per goat, and I find that the people are in scome cases, mediated to give 2a. 6d. for the best samal, 1992. They see willing to make a financial sacrifice on order to society the best results?—Ten. 1994. Has the bred of poste that is occurson in the district been the pure limb year, without any fusion of the period of 1994. So that the period of the period of the period of the 1994. So that the period of the period of

1964. So that the results see making thermaches felt in the neighbourhood?—Yes. in the neighbourhoot?—Ios.

1965. In the second owns found effective in the
matter of improving the breed?—You; any Swiss or
Toggesburg blood in the breed improves it very much. 

Store are one or two matters of importance that require to be dealt with. The tratic is with report to the term 'pure bread.' The Department should understand that this The Department mosts the description max most term cannot be streetly applied to the goats of Great British, with one exception, the Toggenburg, which is to accrete, and fetches such high prices, that those can hardly be included in the reference. 'Sector a number of make goats of the best freeign besent.' All our

best goats, and ospensilly our best milkers, see a waterly compounded of Savias, elicity Teggerburg and Angle-Nuben. This being the cook, I length think that the principles of faceding that held good with other classes or stock, in reference to first and subsequent crosses, could be applied to grate. In the stock to be intro could be applied to grate. In the stock to be intro-duced into Deland, it should be less a matter of breed than of shajin. Walou from good malking simins. whose pedigree and the performances of whose dama or grandhums out he tuced in the Bustin Gost Sonety Horil Book and Frase Boccel, are the kind to acoust. More Hard Book polygree, however, without the rafficing element in the blood, would be little use; the enflicing element in the blood, would be little user; and, for this reason, goats in the Angle-Sulfain class of the Heed Book me to be avoided. If I went down to see Mr. Helmon Pegics the other day, and he wrote this out fee ms.—" Importation—I6 will be time rawage to talk of gave breeds when no can get the ports upen case mass for fresh accadigaments of Brigs. goals to be brought into this country. I treat the Department will being all the influence shey can to bear on the Board in London to great early facilities bear on the Board in London to grant early facilities for this purpose. With a street quaranties at the port of debarkation, there exols to be ab-ritately no danger

country."

1907. Have you had any experience of the produce of three cross-lared goals; do the people keep stems for decreates the afterwards. It mean the frends goals."
They by, in some cases; they consust affect to care the kink. The corner of the goal that gave five quarts add the treate had to a batcher, and drowned two others. sign time year.

1968, One can quite sympathise with the motive which obliges these people to follow this course, though it does not now communal?—There could to be after

taken to see that the female kids are reared. 1969. Dr. Moosman,... Can they be reared on -I should not think so. My man told me that they rear the young ones so butternills. He says that a one and young once on butternine. He may you giving fifteen quarte can feed fifteen leads 1970. The Chamman,—I think to the case 22 the case of goats 1979. The Channistes—I think in the case of goods the perind dump which the milt is necessary in more limited than in the case of other animals—Ten and the case of the case o

gal about 3 like, of leasure mean less were as per-1973. The Limb points will not seed outster—No. 1974. I are rather instituted to think that they make have learned these taskes from partnegating as the final study is offered, to the least and either annuals about 1976. That would, in some degree, account for their falling to the custs—Yes. The people could not gave them cate; they give Inflam now. 1976. Dr. Moonman.-Is this during the milking season T.—Yas.

1277. The Charaman,—Are those goals expensive to prosure t—I have effected ratios for 21s. Mr. Halmes.

Peglev words me:—"It seems an excellent idea to establish a Centenl Sectory of Iraland, with branches entablish a Centent Society of Irakwal, with Impushes in various districts, and assisting these with a great towards avaiding relates. I think such a society should work in close occusionation with, if it is not accessly a broads of, the British Goal Society, as it will be from the latter that the Irak Institution will draw the supply of male goalts; and when breaker in registed register on male goalts; and when breaker in registed register. price, 48, ought to source a good number of such goats at from 4 to 6 months' old." I have oftend my roung males at 21s. simply to improve the breed in Ireland. 1978. Do you find any demand outside your own district?—I get more leiters than I can assure. 1979. So that the light has been speed from your control—Yes. I am getting papers from Cock, Caron cotics—Yes. I am priting papers from Ceck, Cravan and alsorwhere aways, to eccented to with lead shows, "Gest beed by Lafy Dusheath."
"1980. Do you throk that the gravitang of prices to gests at lead shows would direct attention to the improvement and breeding of gests, and be an object leases to the public

generally?—Yes. Judging by what has Ing-pared since the Belfast Show and the Dublin Show, I tank they have had an enermous effect. I am our stantly having letters from people as to what praces ought to be given. In Queenstown, Mr. Benmuch in about to give two goats as prizes. I think the people are taking this question up all over the country since the Dublin Exhibition. That seems to have given it a thoroughly good start. Wilson.—The Us Bressel Exhibition?—

1962. The Coursess.—Do you think it dourable that a very good plan. 1980. They are carriess in that perticular, I take it 1981

1984. I rether assume that local siteution has been 1984. I redder assume that food, attention has been very langily concentrated on the improvement of the bread?—16 has. 1980. I take it that comparisons are sametones in-spituated between the milk of different gasts?—Xes; and we are going to kave a milking class in Boltist. 1980, That world also direct attention, very proemportly to the reafter?-Yes,

near us who has wer #7 with her own cost. I wanted to get a lad from that goat, and she would not sell it burg. I propose to more more remose sars, on a new poor makes when the dam has been pure Irnh.

1987. This is very grainfying evidence of the apprecration of the improvement that is going on !- Yes 1988. Because, under other agroundtonees, these

minute would not have a little of the value now attected to them "—No.

1889. Do you whith it is possible to judge whether
a goal will be prelifie, from a militing point of view?—
I suppose others would be able to tell that; and Mr.
Relatine Pogler potitied out to no some frederes in

connection with goals.

190. You have made no observations yourself?—No.

190. And you have not, therefore, determined what

good milleral—Mc.

1992. Do you think at makes a difference as the
yield if the summels wer milled at fixed persists, or

regularly—I also not think it does. For content keys

strong large I also not think it does. For content keys

strong it is in keys as. When my daughter was ill, I

strong it is in keys as. When my daughter was ill, I

strong it is not thank it interfered with the yield.

In Scotland, on the mosers, we used to milk the goods

as times a day, and I blink deep gave more milk.

Plant in the content of the content was the content of goods in the

is very pleasure?-They say ac-1995. Burely, you can distinguish it from cows' milk?

—I have always tabl the notitions to milk the goats
whenever their children wanted milk, and put it fresh

whenever their children bentod man, and pea is some of the build of the building on it gives strong, does that mean 1900. When you so door if it is kept in?—Tex. 1905. They make choose from peat's mile?—Yes 1905. They make choose from peat's mile?—Yes 1905. It is not the strong of the introduced three peaks into you first introduced three peaks into you have the strong of the s

1969. Let the first instance, I take it, you were rather reportmenting for worr own informations. New J. I made a bubby of it. I have the late Daterran Bardett Courts—are storted the British foot Americanies between the received by the second by affects of the received by the second by affects received years of the process of the proc soms for treated?—The Serias Topgonburg.

2001. From the Serias Topgonburg you would have
life all the year round?—Yes.

2002. You say you have them in several mentits of
the year yourself—Yes.

2000. As the lifts easily carrod?—Yes.
2008. On cown milk?—Yes. Mr. Holmes Pegler to commends that goals should be supplied in the instal-ment system. He states.—"There is one important

ment system. He states,—" There is one important point which is not necetificated in Perfuser Campbell's merco,, and which I varietie to draw intention to Three the quiting power, but superchists; stratilles who would willingly keep a goat of they but the means wherework to prechase M. Such popel; require financial help. The British Goat Association in its ordice years used to buy goods and 50 three set to the

cottagers on the instalances system—tacking paying 5e, on receipt of the good and for mostle afterwords, until the total nest was paid, when the good because their own property. A process the good became their own property. A reference bad to be given by the local dergyman or doctor of the parish in which the applicant resided, certifying to the applicant's means and respectability. It has worked out very well, so for, and the installments ware always paid, but the difficulty was to obtain the

2005. You say the cottagers gave them Tibs, of Indian med and Tibs, of potators?—You and very little hay: in some cases none. They are tethered out on rough 2006. Have you made any experiments with regard

Spanish gosts?-No. 2017. You know nothing about thrun?-No; only the Series Toppenburg. 2008. Are they in any degree affected by the change from a warm officiate to a colder cos?—No. 2003. They do not seem sensitive to atmospheric conditions?—They do not like the vot; but the Insh-not does not like the way eather. 2010. Sir Joses LENTRICKE -Are they bealthy, and casily kept?—Yes, 2011. They do not suffer from any disease?—No.

2011. They do not super from any assessed goats: we have you say experience of diseases of goals; we have evidence of diseases heing certified from phocos alread, diseases of a corton type?—I am not quite certain, but I think it is only on the coast of Africa. Malts, and Offeshie.
2013. You have known no ill effects of any kind free 3014. There is a common practice of having gents

precitied in your district. No, the country people tether all their gests.

2010. You think if they are kept bound they are not selected. No. They do well up ests and lay, 2010. Has there been say self-sate made as to the country of their people of the process of the country of the country

Bits. 4 week.
2017. Has the question of keeping goats in certain definitis been thought of?—No.
2018. This world, posselly, be possible?—Yes. I respected that in a pince like Bullant a keel of goats. should be kept.

2019, Mr. Witson.—This evidence seems to be, on

2020. The goat is emimently the milking animal for the small man?—Yes, and my husband thinks so, too. 1600. It was not owing to the shorings in the ordi-nary milk supply in your own neighborchood that you took up the goat question?—No, it was for distribu-sion of the post question?—No, it was for distribu-ing one of the post question?—No, it was for distribu-ing one of the post of the post of the post of the if we do not still milk there would be no milk for the post postly as no distribute, as the farmour wall not still post postly as in ordistribute, as the farmour wall not still post postly as in ordistribute, as the farmour wall not still post postly as in ordinary to the post postly as the post time to the postly of the postly of the postly of the still postly of the pos un told, every drop of milk goes to the cretinery. 2022. The first cross, you say, does exceedingly well?

2023. There is no tendency for the Toggenburg blood to the out ofter three or four generations?—We have no experience of that yet. 2004. I gother that you run your berd of gorts not only on philambregic lines, but also that you make them pay approach—I counce say I have sumd it paying. We sometimes sell goals to poor people at 100, in the Scutt and West, and then sometimes they th to to pay carriage.
2023. The female goets of the improved simin are,

ander existing electrostonees, sometimes destroyed?— Yes, as well as the mules. In my district one list was seld to a butcher, and two were destroyed. I would have given EI for each of the three hide. We not the MOR. The CHIRMAN, They office no value, campt to the skins?-No; I do not think it would be any use

for the Settle C-2011 I the loss time it when he says the fibilitheting formula goals in Ireland.

2023. Mr. Window.—What are the Department of Agriculture doing in this mother; see they assisting you?—Nothing, except stating in reply to a lether I wrote them 1854 It would receive consideration.

2008. Sty Josep Leorganusc.-Le that long ago?--It three weeks ago.

2029. So far at you are concerned, you and the De-partment are not acting together?—No. I simply wrote to them and made suggestions, and asked He also. Of course, the breeders in England who go in also. Of course, the breeders in England, who go in for prizes, charge prize prices, such as £15 for a goal, which is absolutely refrouless. What you want to get

need in consolidity infinition. Wind you want to get in milling steam at a reasonable price.

2010. Mr. Wilson.—It is your first that some or-windien, whether the Department or the suggested stations in different parts of the country, the same as they have bulk, where the collapses could take these 2011. That would be your suggestion?—Yes, and to keep a street record of the breeding, so that all makes

should be moved to a fresh district after two years; this is very resportant, to prevent in-breeding-2002. Sir Jony Levensons.-I take it that the fact of this milk smalling strongly after twelve bours would make it impossible for goal keepers to send their milk. to the occamory?-Yes; they will not take it at the estices. 2008. Lady Evenara.—Have you get a pure male

Toggenburg?—Yes.
2004. Are the females pure heed?—No; I have no 2005. Are there any in England or Ireland?-There are some in England
38th. O'Emra.—Do you keep your goods
tethered?—I keep them in a grass warren; hat I have
kapt them tethered, and they do put as well. I call put them in the bouse at right.

2007. When they are out in the waren have they a shelter?—Yes, but I do not think that is of much importaine, because the cottagors everywhere bouse than

goods at night. goals it anget.

2008. Do you know anything about the goals in
France—are they Toggrabungs or a Toggrabung cross? 2000 You do not know anothing about the Paris 2040. You know they come through the streets in

selling those milk !- You You don't know what goat that is !- No. 2041. You don't know what goat that is !-No. 2042. The reason there is a difficulty in griding is Toggetsburg in that there is a foot and mouth disease. in some districts, and the Department will not ellow the goats in the Thoy are not allowed to be imported into England.

into England.

2645, And what about Leskund\*—The same thing applies. What Mr. Holmes Pegfer suggests is that been should be a most strate quescribe as dend and a few parts of the part of the parts of the pa 2006. You so not know what the percentage of fat 2047. I think they say that the Angle-Nubian has a neber milk. There is no such thing as a pure Angle-2008. If you allow the had to run with the mother does that shorten the period of hotelfor?—Yes, We consider that goals give welk for a longer period if the ta taken awa

2049. And if there are two kids you can dispose of one, and bring up the other, and at the same time sulk it?—Xes. Abroad they tie up the udder, so that the kids centrol gal at it.

2000. You do not think that it stope the period of hetation?—I have never found it so.

2051. Because in my part of the country the common 20.01. Heatans in my part of the country the esamon belief about the Irah goal in, that if you let the id-ted with the molher at all it stope the period of larta-tion?—I never hour of this. 2022. You spoke of the silistments—I suppose you necessit the bisyners' cottages, with an sore or half an sece attached?—Yes.

Would half an onre be sufficient to bring up a 2003, Would half an onre be sufficient to bring "p a cost with a short tether on?-Of source, they would

goes with a basic sever our our our or women, sany women have to get early feedfung.

2004. In the good books they key great stress on the foot that the good must not got very smade over the same land, for the reason that they will not appear lave haver forms in so. 2015. You find they do better tethened than runn

2006. In one of the books I read at is said that by tethering a good quite abort, and only allowing it a yard at a time, the animal has no room to room, and 2007. So that you would recommend abort tether. 2007. No test you would recommend soor tenner inge?—I think they do just as well short bethead. 2008. You spoke of hilling and esting the goats?— Yes. We used to hill them and est them up to five or

six weeks.

2022. You have probably beard the theory that goals lept with core will prevent obertion?—Yes.

2000. Do you believe that?—Yes. We had too cover one were that died from abortion. After that we tied 2061. You have not any opinion why that is so?-

No.
2002. There is a theory, and I have no doubt these a good dail of truth m m; that goes not on cetting the state of the

2064. You do not recognise may distinctive marks

about a goal for mining purposes?—No.
2005. If you were choosing a goest and dift not know
any thing about her, how would you examine her?—
You would see that she had a good bug and texts.
2006. You do not look at what is colled the 2006. You do not look at what is called the soutchoon—the arrangement of the beir shove the ubire?-No. 2007. Sir Richard Burter has stated that they have a septekeon mark in the heir above the older,

loped?—I have never noticed that.

2008. You have not made experiments in the amo of milk taken from goats by refling them saver-times a day, instead of milking them twood—No. 2009. You know that in most parts of the countr

2070. This practically the females come into service in October and November, and only then?—Ti with the Iraci gost—November and December, ith the Irach goar-November and December. 2071. You sould not breed from them at any other 2073. But the first cross with the Toggenburg enables you to breed at any time?—Yes, but making in April and May is uncertain. get and May is uncertain.

28. You found in your own experience that you breed at any time?—Yes.

That, of course, is a roost important point 2075. How long do they run before they kill?-Five 2076. Do you take two kniz from the mother in a 2077. You have no experience as to whather havin there hids in two years would weaken them too much?

-I have never heard anything about it.

2078. Have you gone into the actual cost; one you tell us the cost of keeping a goat?—I have not gone acto that, 2079. What is the exact quantity of food you give?

Four pounds of outs per good per week, four pounds of bay, and toucteen peunds of mangolds, tur-naps or cabbago, and then they are out on the grass, 2000. Do you find it makes much differ seen. No you true it makes much difference in the taste of the milk on what they are fed?—I do not drink goats' milk. I have been told that it would make a con-2001. I have been toon toon toos is ween mines a new indirable difference in the table of the milk on what have my brought up?—I head so. XMML Speaking of the feeling of goots, I find in Mr. Riomes Perfect's book on the "Mywadages of Goots Keepengs" the Golowing —"Poisto parkings.

No. McGori reports soon on the "Antenanger or Gost Keegeng," the following — Potsto parings, apple peels, cabbage leaves and stalks, postso haultes, beens and peus and the pode of the latter, lettuce run been and peus and the pode of the latter, Lettuce run to soul, roots, out gross, vereds, such as milk thistle, to soul, roots, out gross, two soul, soul as the soul, everything found by a severe of trees, in foot, should everything found by a severe of trees, in foot, should be sould be considered by these sements. I think they will consume almost stypically a sevential. I think they will consume a since the stypical severe the other severe and the severe of the severe severe the severe severe

### 69 Lang Dustages .- 11th December, 1911.

2084. Ser Jone Lawrences. They will cut them 2065. Mr. O'Burre,-You would be in favour of a system of premiums?-I think it would be a very good

2086. Why do you say you think it would be a min-take to have well-beed namins distributed?—It would cost a good deal, and I do not think that it would do much good. I think the make do better. 2087. What is the cross like between the so-called pure-lead Toggenberg manny and the ordinary Irish 16879—I never based of it, and I have nover seen our. The Irish inliy is always long-hated, which we try to avoid, as they see easier to keep and cleanor with short bair.

2008. We have, I think, two or three goats in our distinct from an Irish billy, because the Toggenburg fly we had don't So I head. 2009. It would be rether interesting 2009. It would be rether interesting to see what would be the result in that way? In breeding one

does not like using a half-book male. Another impor-tant point is the age for moting them. Mr. Holman tant point is the age for moting them. Mr. Holman Pegler has written me on that metter — Age of Making. There is one point in your letter in regard to age for mating which, though strictly correct theoreti-cally, is hardly likely to be delegated, I fair, in pro-tince. For exhibition pusposes, and for those who can afford R, eighteen mostlas is the right age, as you ask, to first mate a good, but the means that lidds born say, to first mate a good, but the means that lidds born time some will be nearly twinty mentice on, one as this time they are bringing in no return. You say that the cottagen are in the babit of breeding their female greis from the idds at its months. This is, of course, to be discountenanced, but I do not think course, to be discountenanced, but I to not them much harm would accrue if this was extended to ten April to be mated respectively in Jani Polecury. Twelve months would, of course, but if this hout were made it would bring the month

2000. The reason for mating them at an months is 2001, If, with the Toggenburg error, they could 2001. If, were use reggenerer cross, way come main them at any time in the year, it would not be land to induce them not to make them until they were older. The woman who get \$27 in prices for largest would hadri in moting the led as six months. My gentleman could not moken her believe that gests could be material as any other time of the year than November and December. She thought if she missed the opportunity she would have had to writ until the

led was eighteen months old.

2002. Mr. Wilson,—It she a cottage?—She has a £50 valuation. 2023. Nr. O'Benns.—What would you have to pay for a Toppenberg goot pure-bred?—I have paid £13

100 2004. And that is about as cheep as you can get 2004. And toot is nown as cleany as you can gen them N-Res. I do not think it is to receivery to intro-duce pure-heat Toppenhung. I think it would be good cought to have the good misking steam. 2006. See Jour Lawrasoux—At what age can the bid fond for insectific—At three or four months. 2006. Mr. O'Bruss .- Do you find that the goals vary

in the quantity of milk they give?—Yea, I have noticed that they do vary, but this is probably exused by their not being dry for a sufficiently long time before kidding. Would a very day year like this summer affect

the goats?-No; I do not think so. 150 golds?—No. a so too terms to. 2008. Too think that the Toggenburg cross is well adopted to Ireland?—I think so. 2009. We found that two or three pure-level Toggen-

2009. We found that two or three proc-leed Togger-burgs that were cred down to us died, but they might have been in very led estellines?—I have one or two that died, generally of lever disease. I beaught one for £12, and she died mire the had her bid, and the liver was growing to the side. The lifed nathropping were drilate, but one has turned out a splendful merimal, One of the bids sides died, like he mother, from liver

2101. Dr. Moonman.—Are the hornless variety that best millere?—I cannot say, as I treat the heads of my kids with sold, when three days old, to prevent 2106. Do you think that is necessary?-I think it as a very good thing, both for the people and for other

goals.

2100. I take it that this goat milk is very universally used in your destructs—Yes; the people said they would not get com's milk into tee. 2194. Have you noteed say improvement in the solth of the people in consequences—Only in the health of the people in consequence?—Only cases I have manifored, where goats' malk

people's lives.

2100. Where you resurrected the palicula?—Tax.

2100. Mr. O'Basser.—Do you find it difficult to send THUE, Mr. O'BRIEN.—Do you find it dimeum to sens costs by train?—No. I have sens them with a collar and chein.
2107. The reflexty companies charge a fremendous

200. The reflexy companies charge a brumontous rate — Tex.
2108, 21 fe. 24, 21 fe. 54, 44, and Th. I find charged?
— They charge by weight; they have big barry cealer.
2109. Prof. Mirrian.— You need them by passenger and the second of the s for service to March or April, when the rutteng season

could you send them up by the ordinary goods teals?— Yes, soil it is much charper to send them in a crate es, 400 in 29 survey y goods feath. 2112. World they not suffer from want of waters— c. Goots are not good drinkers at all, and the thing c. Goots are not good drinkers at all, and the thing

is to train them up to drink more, as it would have a great effect on the milking qualities. great effect on the milling qualities.

2113. Are they very tout you where Y—1 find that
they are very perfective as to the wester show prince.

214. They dwent just an eatile would—I think
214. They dwent just an eatile would—I think
214. They dwent just a castle would—I think
better they would be the second three being
214. Peol. Marrian—You do not really believe, I
suppose, that the made goet has any influence on the
conjustion of conjudges absorbind—I only know that our cove missed, and that when we tied up the make goats with them, it never happened afterwards. I goals with them, it naver have heard this all my life.

The Churman.—Thenk you, Ledy Dunleyth, for your really interesting and amportant evidence.

### Sir Rice co Barres exemped 2317. The CRAMOUN,-Your interest in live stock

generally is well known throughout Ireland, and among 2120. If any epidemic came about, these children would be in a led position to resist [19.—Yes; that is so. the other azimals that you have been interested in are goats?—Yes. I have been greatly interested in Her 2121. Would you be good enough to give the Com-Excellency's action in this matter; and, as a large and, wome you see good enough to give the Com-mission your experience of the breeding of pure-beed posts, and what you have done and proved in connec-tion therewith?—I bought two or three makes and some females, and I stied to intered the people in them; receiving a sense in this matter, and, at a large pedigree breeder, my experience might be of some help in trying to sesist in this great problem of winter milk, which has a great interest for us in the South of Ice. tenales, said I sirid to interest the people in them; but I was not able to assistly them that they will led during the winter months. There is a Mr. Culfinan, and she has a most resuscibility record of posts hidding every month of the year, and than errors one. The that tendency to that risk, and tendency will transmit that tendency to that risk. 2118. Even in a district where dairying is so generally carried on?—Yes. Want of winter milk is a penceally carried on relies. Waste of white and very senses matter; and bringing up children on bud-tes and whole breed is most injurious. Within the last

ten and white breed is most argamous. Within the last mouth I get a dentist to extende for me the tenh of 130 children in a tillage school, and he reported that out of that number there were only four scand mouths 2122. Have you been looping the make goats in your load with the object of improving the breed generally in the lecality?—Tex. I am now speaking of the dis-tries of County Coth. in the lot. He attributed it almost entirely to the feeding, and in some cases there was objectionable matter cosing out of their recepts.

3123. And do you find that the cottagers are antique to co-perate in anything that would improve the

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.2139. And personing the system generally?-Yes.

Str Ettrage Barren,-11th Bessesber, 1911.

broad?—Yes. I have put my goats in centres, and they are largely med. One shiffing is charged for the THIS. Do you believe that if a scheme of that kind 224. In you senere that if a satego of that then were undertaken by the Department of Agricoltece is worth by a great advantage?—Xe: but they should

exceeds great care in remord to the sires. 2125. Close breeding would, of course, interfere with

their constitutional strength?-Yes. 2126. What has been the custom as regards the offspring?—I have the goats only for a year, and I beyond the sufficient experience to tell you; but I don't then the people will slaughter them. I think they will be to increase the number of mneoved goals in the dis-Here as a letter from Lady Carbory's man, who

that. Here he seems from Lang Camely a same, was any he has made very coarful inquiries about the dis-trict, sod could not find anyone who would sell goats, as everyone seemed to set great value on them 2127. Mr. O'Bussy .- The people about won't sell

5138. The CHARLEST ... It is obvious that they are eredated in the district when the people refuse to 2158. Have you got any female goals of the same read?—Yes. Both of them had twins, and I had to

give the kids the entire milk, 1970, Are the famile goats pure-level or Fright-They see Angio-Toggenbergs. The original Numan was brought over by the Beroness Burdett Counts, and she paid 150 melness for 16

2181. You don't find that they are in any degree delicate or susceptible to change of olimate?-No. 21822. Have you given them any extra core?—No; very ordinary care. When the core go out I let the greats go tall with them. They remain among the core. In fast, I believe very much in the question that was careful with age when the cape. I believe they stde

it off the land, and it does not do them may harm; and they save the cown from the abertion in that way, by cating this plant.

2133. Have you got goals among your cow burds?— Yes, for a long time. During the cummer I live in a

2147. The CHARGON.-Are you poster of Olderstle and the district around?—Yes. Title And you are naturally familiar with the con-fillent under which most of your paradioners five?... 2140. Is there a defeatory of the wilk supply in

2150. And in your experience the small landholders 2100. And in your capations the small manifolders and orisingers, although they may be francisly able to purchase milk, cointed procure 157—No. 2101. To what do you strike the they will, from my expedence, I should say it has strice largely from the tention of the limit. In the old times, when the electron of the limit, in the old times, when the electron of the limit, in the old times, when the electron in the days may also the second of the limit of the contract of the contract of the own unlessed of, it was upplied contributions that was unlessed of, it was upplied contributions that was unlessed of, it was upplied contributions.

elevent months' system that next powersil, and when the mentioning of load was unheard of, it was quite possible for poor people to get a supply of rollik, at least of totaterallik. Since the auxiliaring of the band began, and the eleven months' system was started, there has been a greed for land, and the poor man's ow dis-appeared. Previous to that period if was a very com-tour blank for overy most to here a row, because he thing for every min so not a new or the feed-it very easy to got accommodation for the feed-it. But this dreadful hunger for land and putfrom it very easy a grant purply for land and pur-ing of it. But this dreading has given the poor men no ting up farms for section has given the poor men no chance. It is now considered a great compliment if a men gets the grass of a cow from May to November a man pois the gross of a core from May to November at 28. It is a great privilege to get the seconnection, and heards barelly get if the was no outsider. That poor man be opened at least another 28 for the post of the property of the property of the poor man poet man cannot keep a poet most extra the poet man and the poet of th

able opportunity In your openion, the economic conditions under which the land in your district as beld have largely increased the difficulty of Steping up a sufficient expoly mile for the inhabitants?-Yes. 2153. Is it at all customary for farmers to know a dairy for the purpose of supplying mile to anyone who likes to purchase?—Not in the outlying district. In bangalow in Cork Harbour, and I bring some gusts with me for any own supply. 2194. Six Jenn Lincolnous.—You say you use six-milk sourselff—You. 2180. It is palatable?—Yes; it is very no

2156. It is paneaux -- 1es; it is very nec. 2156. What is the average quantity of milk gives, in your experience?--I don't think the Irish gout ever west to two quarts.

2397. But have you experience of the cross?—No.

I have them only this year, and they ere rearing then 2116. The cross-beed gives a larger supply of mili-than the Brish goost?—Yes.

2119. This increase in the milk supply is a great diviniting to the poor people and to the district divinitege to the peop people and to the district cornily?--It is. Agriculture could spend metery better in any way for the poor people than in bringing over new breeks of goots into the country. The male Irish goal is some-

2140. Is that the case in regard to the cross-bred ont?—I have three makes, and I find them very quot. 2141. Mr. Wilson,—wome post-control suitable for bulleth has said—that they are specially suitable for he covered condition in Indeed, suitable small he present condition in brusers and lebourers?---Yes.

2162. And in your experience, has the Department are removed, to amport a considerable typicher of road militing strains.

S163. The Changian I think action is in progress

at the moment? I think the Department passed a of the members—a terms the Department present a resolution to buy a certain number of makes. 2344. Dr. Matemates—You don't better your goats at all, you let them you though with the court—Yes. 2145. Does that core them of their had habite?— They don't do much harm; but in coupling, care must

the laten to have peoper couples one staives, marriage the stronger may choke the weaker.

2166. Sir Jone Laserances.—Did you dishoen these? No. Half of them were anterally diskerned

Boy. BOREST BARRY, P.P., examined.

104. It is not followed as a commercial present, this verding of walk in small quantities. No 1243, Neve in the form of Oblessite, have the imbelies as experienced difficulty to procurage a unply?—They have coursely by the let, You they find in impossible to provide for their children, expectably in the

2136. Is it your operars that milk, so a food, so not so extensively used as it should be, on account of the difficulty in procusing 82-1 believe that the reason

mills is not more freely used as because of the impower billsy of getting it. The people knew very well the value of 18, and the measurity of 18, but they among \$1.57. It lends to the use of other foods that are openous to the development of the race; for instance,

injuments to her neversprings of the race; for metance, the use of possinge for shridden is not so extensive as it might be?—It is not now. 2158. They don't think of using it as food at all now wing to the searcety of the milk supply?...That is an owing so the manesty of the mist support the and It is tea, and ten under very unfavourable conditions. In the lossibily of which I can speak from experience, the ten from the morning is set saids, and silice the children come beams there is a fresh change of wester. I now a child that was [11], he had here in a bed state all naple, and was highly neverous, but if was rod, I should see, replicitly. The mother could not give any reason to account for it, how on gating our of the heave-reason to account for it, and on gating our of the heave-th and the self freques on the both. I saided the mother was it has self freques on the both. I saided the mother was it has self required the count in soul specific with wall the mother country the country in the second self-cent production of the country that the country is a second to the second self-ter country in the country that the country is the country that the country is a second that the country is the country in the country in the country in the country is the country in the country in the country is the country in the country in the country in the country is the country in the country

utilizes in the evening the ten-leaves left over from the morning by adding fresh water to the teapot. "Well," necessity or soming from react to have suppose. It said to here, "it is no wonder your child an affected as he is." "What can I do," she said, "there is no milk." The development of home indicates, such as the provincial of home reads is also interfered S120. Do you stenk it has an injurious influence on the physique of the rising generation?—Tes. In Old-essite I are recently eight was coming into the town supplying the people with bread, so that home-made the town, the farmers might send in a car, but in the cottends districts it is not draw

Fixed her count to be an existed of food. At the bear, the harder Start has more of the frequenches in existing the harder Start has more of the frequenches in the start would be in the ordinary relocationate bread on the start would be in the ordinary relocationate bread on the start has been precisedly from Connectific, the start has been start to be a start of the start of the

make on betteening standing. With the development of the samplen, the list is tree of clock, and considered of potatoes and haster, with bustermills, followed by a piece of breads, as at in buckers, and a fresh helping of milk. This surport controlled of potatoes and butter, with the surport controlled of potatoes and butter. This surport controlled of potatoes and butter. It is support controlled of potatoes and butter. It is support controlled of potatoes are butter. It is support controlled of the butter of the surport controlled of the butter of the bu

and strong, and sale to terrors these solves offer a head day's work.

2003, It is obvious that their physical endurance was in no way impaired by reason of these being fed on atticine of shot that would now be techniqued to a the average or which human nature sould be supported?—dry the entirety. The fact is, they had the probable—dry the entirety. The fact is, they had the corressors would be table to endure the same full and

procrision would be able to enders the same full and hardship on these food, or any other.

2101. The compation at which they were engaged was a particularly exhausting one?—Yes, 2102. And notwithsteading this food, and the simple food that they had, these people were able to bear the best and kurden of the day, and week almormally long

2163, And after the day's work their spirits need hospital?—Yee, 2164, And apparently they did not suffer from the effect of thair hard work?—No; and what I have men-

brord is not an included cone.

2005, No min, content present at the present time.
2005, No min, content present at the present time.
The distant scale of the present day laborate is, at a
roll, is, is and sharing head of the present day laborate is, at a
roll, is, is and sharing head the min man a day. Other
the hea has to be taken with very lattle, if any, mill;
and had being heady in the chape, is concidered as
all had being heady in the chape, is concidered to
cooled in the usual being him to the continuency
they for it on the part. If they used as a continuency
they be in the chape in the chape in the laborate
to would he botter. The value of milk has so habetasted them to the use of the tother have got out.

225. Do you think the fost that the land in your immediate rejellphorubood is cottedly used for the preduction of host has in any way absolut the confornce of shirping in that distincts—Indirectly in Los. that is a surface of the conformal conformal contains the conformal conformal contains the conformal conformal contains the conformal conformal contains the conformal contains the conformal contains the contains the conformal contains the contains the conformal contains the contains the contains the contains the conformal contains the con-

may, twenty-free or thirty years ego—Ton. I believe the in.

2108. Do you think it would be possible to revert to the conditions which then personal—Yee. Land that had a big reportation for making beef and motitor.

that had a high expectation for storing heef and motions owing 50 kin feets that it has been turned to the region owing 50 kin feets that it has been turned to the region of young shools, is being importantial. It is well haven that young oottle are atmosting on the hard, and motion that the region of the region of the hard, and that has been to have the region of the hard, had been seen able to prove the properties, and the land that was able to prove the good receive does not give them at present.

2100, De you think it is, possible now to require the

\$100. Do you think it is possible now to secure the meanural of bloom in your districts noneeasy to have the land collimated as it war—No; not is the same way. There is only one prospect of improving, not that is the property of the property of the property, even in Meath, sould not affect the price to be paid for bloom and concentrally work his band; but where it is divided up, and a mean none work for irm, the very best results would be conserved.

on naving the lines miss againty—non security; II is divided on amongst the people the small farmons who have large families also to holy them, would not have been assumed to the large families and the people of the large families and the large families in modeling the farmon families in modeling the families.

If II, You believe that the divide/ground into articlesion of the manhong system in Mosth has had the effect of affecting the character and user of the limit—

vion of the maching system in Meeth has had the effect of altering the character and user of the land?— You. 2172. And your remedy for that would be the dividing of the land into small parcels, and giving it to farmers who would be in a position to provide the necessary labeut for tillings—You.

farmers who would be in a position to provide the recommy labour for bilings?—Yes.

2170. Do you think that the absention in the unerwould have the effect of bragging back an increased population to the land if abloow were more continuous than it is at the present time?—It would measurily have that effect. The division of the land would un-

population to the land if libror were more continuous than it is at the present intro-III would necessarily have that effect. The division of the land would necessarily open up new homesteads, and leave it poshie for people to find a horse to Ireland, instead of larging to send their cliffares away. 21% to you think that the moreous of the number

Accordance in your parties therefore an electronic concrete the topology of mile, making it more possible than it is now for those who see brailies to secure it? — Yes, madeship it roud is how that effect. From the control of the control of the control of the showle eighty tray homesleads have been created the property of the control of the control of the things of the concernibility within and have contracted that they had not before, and their neighbour have a term of the control of the con-

3 250. You have ortion experience that, as a result of the division of the machos, more facilities are now a variable for this production of mile then existed perturns to the change—Fec. Though one huising the color of the change—Fec. Though one huising the color on the farm, and that means their overgone has a churse of getting scene mile. I will explain to you have been poor miles case was specially provided by the body on the farm, and the mass them.

270. In the division of these ranches has any provision been made for the grazing of the core of such people as might not have perforquised in the distribution of the inait--Do. On each ranch a posed is reserved and socured for the inductry's core. 2377. How is that controlled "—By tursteen. Under

the Act of 1903 is we only possible, to year it as could not not be seen to see the second of the seen to see the second of the seen to see the seen to seen to see th

Agonitative and Technical Instruction for feedand or the Octacid and sup country or days praid distinst to prachine may peared of an estate under section force of that section sout the said Department or may seek Council or any other body corporate laway gover to occurs limit damy set at treatise for these proposes. In the other control of the country of the country of the government of the country of the country of the partners of a Country Council or erzal distinct council

d parkaced or a County Council or rural district council or under this socition, the estems for the war of the load a mutalisated in section 30 of the Act of 1998 shall be founded or spectored of by the Department, and the requirements of that scotum with regard to the framing or appears of the scheme by the Local Lastitenson shall, not npply.

(3) When hand is purchased by a county secural or ruesi district consult under this section the encounts required for payment of the auctionate of the contribution of the county of the contribution of the county and district county at large, and in the case of the rural district county is a district at large. (4) It is hereby declared that the provisions of socials at and of method 20 of the Act of 1000 as amusted by this solution apply as well in the case of the sale of the provision of the the Congressed Districts Boards.

Congress interests forces.) Interesting particulars with regard to the method which has followed the distribution of reaches in your district, whereby provision is made for the protein of owns and the proteinties of its made for the protein of owns and the proteinties of its made for the protein of the made of the protein of the made of the protein only to shid owns that made only to shid own the protein of the land source small holders. I say that the superincent is a global to still the Commission that the superincent is a

to the division of the haid among small bodger. I not positive success in my health, There are digitly mebolidate, and I cen tell the Commission than they are belongs, and I cen tell the Commission than they are belong them of building booses. The Bustner Camminationess have consistent to advisce more of the cleany interests have consistent to advisce more of the comsistent have consistent to advisce more of the campited 4010 to help to 1003 is bouse, and there are several of them who have applied. In one series have seen and I think yi' is no existent attention to make

that you will here mill where the hours is out the examples will be stepped, but not be practical and all the stepped of the stepped of the stepped of the letter inbetted in the development of the country gonerally, and particularly in the district in which so it leve, even selection of the stepped problems under grouper bygginns conditions. I have no desire to study any without me on the demonstration of the stepped of stepped of the stepped of the

sufficient distances had not illustrate near given to that excell be some scales or sweaped for engapting a special proposity schap they in would be indicable. So illustrate the highest schap that I keps that whotever subsorbe excellent I my that I keps that whotever subsorbe schap schap that it keps that whotever subsorbe experiences the second schape of the subsorber of the schape of the second schape of the schape light of the slowless accessed or missing proteins or proper types and scottendedum for missing which we have been subsorber to the schape of the schape of the large dark shoots have been plant of up own exclusion. Schape the schape of the schape of the schape of the schape that we see that the schape of the schape schape that we see that the schape of the schape schape that we see that the schape of the schape of the schape that we see that the schape of the

consistent are severating meany to peaken, and at would be well to shared them to make a promise in their scheme that in advancing money for building beauer after the constraint of the constra

the Dairies Orders—Yes.

3192. The Canamers—As a necessary adjunct to a
healthy and comfortable homestead?—I agree.

2193. Would you be good enough to give us more in
detail the precise that us followed in connection with
the reaching that have been divided upt—Torce very

large ranches have been divided up. I am not able to give you the exact accesses. I am not able to 1186. Give me a rough idea?—About twenty days shorts were made of our ranch. On that ranch eighbour seves not reserved for the labouring mean's ow. It is called new plot.

3185 Prof. METAH —A common grading ground?— Fee.
5186. Not divided up into several parts?—No.
3187. The CHAINMAN.—That is individed before than

MOV. The conversation of a result glob for our individual conversation of a result glob for our individual conversation of the eighbour agree, and move there is college lateral for the eighbour agree, and move there were the statute cover for each cover that means we have no statute cover for each cover that means we have two statute cover for each cover that means we have less facilities provided for in the captions noise.

2109. See Josev Lawraneuv.—You think that the milt of one convected so much for one family—

It is necessary.

2386. Prof. Merram.—It would, of course, depend on the size of the farming—Pan. It would not go far in supporting als fants farming.

2120. Mr. O'Bauxs.—I gother from your evaluates that these are to re-countries in your district?—Not in

Side. So that there is no formpission to said off to a creaming railli produced by some long by the laboures on the laboures on the said produced by the said produces on the said produced by the facility 7—No; I don't think their would see come to pass.

2100. The Charassia—One the question as to whether or not the firmily could consume the whole of the railly to would be possible for these people to of the railly it would be possible for these people to

to 1000 1000; we want to be account of the so will concentrate of the concentration of the colors and to will concentrate of the colors of the

2005. He may mettool here derood by the observation of the presence he will get the same piortime of the piortim

2197. With regard to the selection of the plot, is it usually labers in the centre or on the france of the extent -1. It is possible taken aboliting on a public tool. It is slowly on the frontage.

2199. In whom it the land vested order the schemes—Three trustees. I am one, the Chairman of the Board of Gazetinas is the second, and the

schemel—Three trustees. I sm one, the Chairman of the Board of Gauddinus as the second, and the Cheirman of the Dustrict Council the third. 2196. All representative of public interests as the locality?—Yes.

2800 Mr. Willion.—In the scheme you have described in there a map of the locality—Tes. I have the map here. 2801. Lady Eventum—What shaepe is med-touch corv—The samily is 65 11s. 64. half-yearly for the eighteen corres. The rules are 18e. 74c. halfyearly. We have not excelly nine most at present

States We have not been previous for some accessibility we have made previous for some accessibility processes. All the sources of the source

ber; it is a privilege to get show terms, and they won't be given unless there is seen relationship between the landowner and the audividual who after for the granting.

2200. What claps of mon has been selected, or in it

2200. What class of mon has been selected, or in it is necessary, in order to secure the right to pasturage on the cow plot, that the man should already possess a cow?—No.

any 2004. Bost of a man cays I will have a owe ready, you reserve a place for limb. "Now. They have get so mands wave," from their other of things that they have to bot heast. They begoe to think that it was no use; bot heast. They begoe to think that it was no use; as the second of the risk of soch bearing occurs, and they are so sow because of the risk of soch bearing occurs, modeline for it, but now they are moving supplify. These is only core things that I ragged about the airrivale reserved for the laboure.

modulous for it, but now they are moving "spility." There a souly one shim that I regard shoot the dirichler up of this land—that value the erra has not loos reserved for the bloomer.

2886. Of course, your solution is an entirely soluted—Lies. With the Introducing I now poisses, I will be a solution of the solution of the solution of secure and only the gracing for the sources matched for the bloomer, but also a poided of ground for enable into to growth feeding for the own. At greatest the pose times who wrishes hay have to pay 345 for it on took.

ned image dictised by the University of Southernoton Library Diotisation Unit

Therefore, I say that in dividing an area of 1,000 acres, I would reserve 60 or 50 acres for the poor man's cover; and he could have it on these scoulitions—by could have the lay for the winter at the figure which has been calculated to cover the cost. It would cost the labourer 200 to keep his cover upper present condiscore, but under our system it will not over him

bell this up. Mizraw.—What you would like is to have the lind divided up into two lots—ere which is being gracel and that cooped to—free. 2007. And that cop would come in for white use?

2200. The Crammax.—Might I inquire what close of man has been selected—in it is man who has a small holding of his own or a laboreer in a Union critique?— Firing in a labourer's cottage who has already a statute acre of ground. He has that for his vegetables. 2209, Mr. O'llures.—Does by, as a nester of fact.

grow a criticio amount of root and grain crops to sup \$210. The CHARLESAY .- Do you think they will display

2210. The CHARGES - AN YOU SEE ANY STREET PROPERTY OF THE CHARGE T nupre. They was got occupe, and as intued with a new spirit.

2211. These plots are describle, not only for the im-recovering of the economic conditions of the number

but also for the development and improvement of the but she too the development and impervement of the merril terry—That all Lisbow, necessarily, 2012. Mr. Witcox.—Might I ook you to indicate to us have the new plots that are being divided are actuated with regard to the cow plot?

The witness pointed out on the map the location of the con plots in relation to the portion of the catato which had been divided up.

2213. It is not processry that the labourer should cease on the estate is order to qualify for the gracing on the cow plots—No.

2214. Dr. Mcconman.—The labourer, in no instant 2216. Dr. Scottman, -The innount, it no immune, gets any part of the land? -No. He gets no right or gets any part of the year he is gracing his now on the fitle except for the year he is gracing his now on the plot. Next year the trustees will make their selection. plot. Next year the trustees will make their essection, and if he has been paying up and using his plot pro-perly, procunity will decade his cleam the following

2218. Pief. Mirrou.—It is one shock—that he has to reners his tenning every year?—Yea; and he has no title, and can get no trouble.

2216. So Joux Laxraine.—Have you say sheller on
the cow plot?—It is an open plot, son in the winter

kme they must bring their cows borne. 2317. And they must born byres?—Yes 2218. The CHARRIST .- As a matter of fact, there is no provision made for the construction of such byrea;

3319. You have commenced with the foundation—to provide them with the lend?—Yes. 2510. Has any solution been thought of with regard mail. This any sources teen thought of with regard to the advancing of money by way of lean to the labourers for the purchase of cowst—No; but I am glid to say it is quite surpaising how people are moving, and making the effort to provide the new.

2221. I have no doubt that shopkerpers and others advocate such loans at all, trui they will get the our.

\$202. Prof. Mirrow.—You do not used them to store 2838. The Chancay, As this is a Mile Commission I am perhaps rather in a burry to not the cow yielding the milk straight of 3—There is a great deal to be sain

2824. Mr. O'Burts.—Have you no selection of op-operative circlit sometics.—We have not get the banks. We tried them, but found it very hard to work them.

We take the cow as a uset, and the call and the yearling are charged in aropertion. the plot at a perportionate teriff?-Yes.

2530. So that the lebourer can develop his surmal on 2216. Pool. Marries. Supposing he could not afford to got a cow, he could put on an equivalent number of sheep?--We confine this plot to the cow, which we regard as a unit, the oalf and the yearing having pro-portsonal tariffs. We have no sheep. 2227. A sobence sirelar to this has been working for excess years in England, where they put up various plots of issue by public auction. This scheme of Father evied in the scheme

The CHARRES.-I must say I am extremely intererbod at the senson.

Mr. Wilson, I am outlook to know if this is a considerer revival of the old Cellic list tenure?—Yes, except that they had the land free. In Duked, there

is no thorge whatever, except for rates.

2228. In that a community !—Yes.

2220. And does that oustom pecwal still?-You in 2230. Mbs McNena.—Has at endured all along?... has to Dulcok. 2351. Sir Josef LEWILLENE.-There is a communage

not far from not far from Dublin?—Yes,

2102. Mr. O'Burrs.—In Duougal, thay used to have
cortain rights over the mountains, and the richer man used to lake a great deal more than has there, so that there was no room for anyone else? In Dubok, ourstern

has detailed the law, and there is no trouble.

In Denegal, it led to a great deal of trouble when they were steiping this land. they were striping this land.
2333. Lady Everante.—Supposing you did not have
nine labources to take up the cow plots, on whom does
the loss fall?—On the trustees; but as things are there as no danger whatever. In the event of a deflect, the trustees would be responsible.

\$294. The Cuamonay.—In the event of those selected.

proving suitable, are the trustees ampowered to 22233. What aloss of people have been selected for the plate that were health up—are they readents of the districts to people freequilt in from other districts? —Britispally residents. In a very large propertion of —Britispally residents. In a very large propertion of —Britispally residents. the charactery were seems proper as a ballings, and there was an uncount added to their baldings which gave occupation to their young people. In a great many cause they were people who were selected from the seen of immers with four or five young boys,

well side to work; and the Edded Communicators took one of these young men and gove hap a division of the kard, I am gled to fell the Commission that they are really thermy and prospectors. 2896. The Communication is delighted to how I.—In the public Press I seed an invisition, and soled people and to take my word as to the confilier of these new theorems but the communication. not to take my wont on to the condition of these new formark, but to come nod see for themselves, and that I would give them an Irash welcome. 2287. Dr. Monman.—What is the average size of those heldings?—They vary. In some estates they make larger daysoons than others, but very few of there under twenty sintute arres

2238. Would twenty statute seres he she minimum?

There are down to fifteen scree in some cases. 2330. Would from fifteen to twenty acres be the minimum?—Yes; and they go up to forty; and one man got up to seventy acres. He was the hard on the cellule. I would advise in that respect that how tens twenty brish surva should not be given. It gives a men and has family sufficient field to work in, and it you give him less he has to take in con-new, and that

2240. Ser Jone Learniews. It has been alleged that some tenants only made a futile attempt at tillage, and some temants only made a notate account as energy, and that the land speedily relepsed into groups.—In some cases thay have to set the land, and I would not say that they were to blams. Some have to set the land until they got the cattle

2341. Prof. Marries. —You do not think it is a serious argur? —No.

2042. Unless they make a tends of it5-Yes. There-are a few of the eighty new halders who have set the lood; but there is a reason for it, and it is not a had sign. When they recover, they will give a good accoun-of themselves. It is not easy to tell. You must have the requires that were not multiless plants now. the manure; but some are hubbling bouses now, and having succeeded so well up to this, I am confident

that they will continue to succeed 2243. Mr. O'Barra.-They are labourers with Union nottages that you have selected for the cow plots?ringipally. 2244. That is to say, with one statute acre to such

cottage?-You.

Nev. BOREST BARRY .- 118h December, 1911. 9945. To they till their sore of land?-Some do, and

2005. Do they till these some of hand?—Some sto, some man of them make a very some sor of the hart model garden and them make a very some sor of the hart model garden and the state of the Thick's man who searonly ever used has land, except models and the state of the state of the state of the properties of the state 2247. If you found that a labourer who was putting

in for these commonege rights was unartisfactory, the trustees have the power to refuse him?—Yes. 19249. In certain cases, where you get a heed working 220R. In certain cases, where you get a heef-working man, he does a great deal with his scene—Yes. I think that the collision of the cove jist will encourage him to make better use of his zere. 2249. The CHARGAN,—I think it will open up to him a new wists of possellities—is such that no!—Yes. 2250, Mr. O'RIME.—There is some talk now about

increasing the statute acce attacked to the labourer's cottage to three seres?-That so a different tenure 2001. The CHARGEN .- The belower on the cow plot can held only during the goodwill of the trustees, and so long as he makes good use of the land?—Yes,
2202, That is an antidate to the creation of un

2282. That is an antidate to the creation of un-commin bellings?—It is a check. 2288. And it is a pressum on industry?—You. 2284. Mr. O'Burn.—Some people would say you are giving ling genering, and this, seeing he has one chatote sore already, at would be simply giving every lebeurer two extre agree?—He would have to held it as a fermer

then, and that would be a bad scheme. CRAMMON.—There is no analogy between the Father Barry's scheme makes the masse of the ind impossing.

2256. Lody Evinano.—I know you have great ex-crience of sekool gardens. Would you tell us if you

2255 Ledy Evmann.—I know you have great ex-perience of school gardens. Would you left in if you see any effect of this training the children reserve at school in gardening?—Tex. 2250. Are their parents induced to grow vegetables? —They are moving in that direction. They introp home plants from school, and in that way their education in

resiting on others. It is plain to be seen that it is hving a good offeet. The difficulty in his sobreco shorts one plain is requiring gutting trustees. 2257. The Charmann—is it difficult to get three people in a difficult with the countries about jut development as to undertake the duties of trustees?-The Estatus Commissioners tell me that there is that

difficulty now about getting trustees. 2258. Do you know, so a matter of feet, whether a achieves he years has been brought so note freelism to any other district as in that over which you present in any other district as in that over which you present to any other district as in that over which you present to any other hand. It was practically the cost dividing up of the land. The inproctar who was suggested earned the same sides there. appealed to him to make sure that he would not sive I appealed to some or more sure time at which are given the labourers.

I am also told that the scheme in this adjoining district was a success. There was a little trouble in the be-

gisting.

2250. I hope the success of the scheme in your dis from the point of view of sensorms improvements, but also from the point of view of ranging the moral tone and improving the spirat of independence?—I think it will have that offert.

2210. Passing to a further development of the adment, do you think that the sarrying out of the idea will not only tend to the development of habits of theirit will not only tend to the development of habits of shells and releasing, after natural the use of absolution derails.— I think it will necessarily have that effect. At process rote, like measure, who have to go to this work as a distance from know, go to the measure publishesses, and given part of porter said some head and batter. They will full you that they have nothing clac to get; that the could not go a gain or rolls.

2001. So that the unfortunate behit of drinking which 23M, so that the uncounsete near or ununing warm has developed in some districts in due, in some degree, to the fact that these simulates are practically the only liquid food which is available?—That is so, to a

cold may a state.

"except good extent.

"except good and a state of the first molecue, may lead to

a miles disco of it is a later stage?"—I'm: they will get

into the hete of being the drink, not meetly using

2203. Have you thought of any other scheme whereby it would be possible to eccure that milk could be provided for cottagers outside districts in which there -There is such a thing no substituting a local dutry; I have no scheme worked out. 2364. Suppose, for example, the local authorit-the District Council or the Bord of Guardiansauthority

guaranteed to take from a certain cowherper or land venue in the district a fixed quantity of sulk for 200 would increase the possibilities of providing milk?would increase the possionness of provining miner-I do not know how it would work out. 2005. What I had in my mind was that a contri-bithou could be made from Imperial sources, another contribution to come from the rates, and 50 per evol.

of the entre cost to be paid by the purcheser?—It is wither an invideous thing to suggest anything that would said to the rates in a country district. I do not know how the rehame would work 2008. The local authorities, in order to outcomed the sublic health in their district, are obliged to make cer tain expenditure with regard to hygienic conditions and buildings—suffic stores and cow-byres—and if the belle is well founded that mile is an essential diet for the support of human nature, and that it is no economic

a diet as can possibly be produced in an agricultural a site is only passing or protect in his special country, do you not think that there shreld he seems warrantly for expecting that the local nuthority should become contributory to the well-being of the population at large?-I do not one why it should not principle is already established in ways that would not have as beneficial an effect. I would agree that the principle is sound. How it will work out I could not I am inclined to think it would work well if once ibwagurated. 2007. Mr. O'Braze. Do you not think that any such

and. Mr. O Diller.—In you not mine that any such schume would depend on the personal character of the local authority, whoever it was; that it would be yest the same as in the complet scheme, where there as a difficulty sheet trusters? The CRAMMON. I am putting this before you purely as a hypothetical scheme, and I am anxious to have the opinion of one who has worked out practical schemes with such good results?—I think the principle

underlying it is sound, and that is a great deel secured.

I have no doubt that what is surrounded with prejudice in the beginning will, when it comes to be worked ont, see most to make as minor resident for it as the other through we are doing.

2008 Beforms are generally confronted in other countries, as well as this, with a certain amount of presendor-2 Yea, that is no.

And these prevedious frequently disappear after a terms ?-Yes. a term 8—Yes.

2070. Renterring to our cow plots, will you tell un
if you have made provision for a proper water supply?

—There is coly one; but I am appending to the Estimate
Commissioners in this matter, and I believe further
positions will be made. I may mention that we have provision will be mode. I may mention that we have a beak account open for one plat. The reason we did this was that the people would have no monedade rounts from the usurg of the plate. By opening a book necessari, the hand will advance money on the strength of the treatons, and when Noverhor comes round this labourer will find less difficulty in paying the little overdant. It, will only be a few panes on

them. I think it only fair to mention that the #4 Me them. I which in only fair to merition that the £2 for the greating of the cow, in the case of a poor man dealing with a fractic at greated, justified whee the state of the company of the company of the 2271. Up to a cuttom age?—The case is company 2271. Easy will be obliged to make previous for the cuttom age.—The case is company—The case in the case is case in the case in the case in the case is case in the case in the case in the case in the case is case in the case

2274. How muon more will you add to that?—It would depend on the scheme you are working. 2375. At present, what do you propose to seld in the case of your own ochemn?—Nothing at present; the hand is not impoverished ust.

2276. The lebourne's calf will pay more than what you charge him for the use of the plot?—Yes. Our schome is not yet in shape. 2017. You heard a great deal about posts this mees-

Boy. Boomey Banax .- 11th Documber, 191. Dr. Moonman.—There is very fittle butter in it. Sie Jone Lectatore.—If the createry could supply

2278. What is your opinion about goats?—It is the poor man's cow. I think it ought to be feasible, and Is it your opinion that it would be fraultie to are tiens etending, as you have premum buile?—It North as big grassere that a man would be looked on with contempt if he came to keep a good; but, as the one of other good science, that projudice will dis-ency. I do not see why it should not be encouraged.

noy. I do not see why it source for the country Com-ities. Would it be a good plus for the County Com-tities to bring forward — Yes. 2381. The Chambass.—I saw in the press of your 228L The CREMINN.—I saw in the precise of your evolutions that you make some allesies in the substituting of local darries. Weekl you kindly stell us what you have to your modif—In Carlow, they are weeking a delay. It is a philosuborpic maker.

202 On what I inter—Local people, like the yourse's Netheral Heelth Association, are working in

give milk to poor people at Id. per quart. 2281. That is a development of the work of the Women's National Health Association?—I do not think so. In Carlow, it is a few people in the immediate isosing that are working it as a philankiropas asheme. Perhaps it is gradied on to the work of the Women's

Perhaps it is graved to a man.
National Heelth Association.
2384. Unfortunately, philosophropy is often an evaporacontrol of the same present up the same cent quality, and not always present in the same degree?—Les.

2388. To work any general scheme that would had
one would have to deal with it outside the philianthropic
uspect!—So much the better. Philianthropy is good in

sepecial cases, but as a common company working sys-tem it is decreaselying. 2388. You look as in from another point of view, I assume from the point of view of the morel tone of the people. You think that some other achieve explit to people. Let use have some other actual respective in instituted that would give the people a personal interest in what they are deing, and make them feel that they are doing it for thimselves. Two; and that they have no one to thank but themselves. Of course, philanthropy can co-operate in and promons these things by organising and helping them. I think buttermilk go a thing that should be taken great notice of, because m a thing such should no mann grass sense we be con-tracted it is, in seem respects, more imprehent than the sweet mill: for children and young people, and for use as a comment. It would be better to aim as supplying them with laritermill: then with sweet mills. 25%? It is a thing almost impossible to get just now?

2288. Sir Jones LENTANCE.-I was struck with the picture you gave so, as the result of your charryshop, of the dresslence of the present generation compared with the yest. It struck me that a certainly what one would expect from the commismation of the meta-one would expect from the commismation of the metaone would expect then one commissioners of our business tree value of the different disks used—milk and business.

tire ware of the different agest becoming and the old days, as against ten and white hread at precont. Formerly the former used to chum on his own farm?— 2891. And the result was a certain amount of horizon and horizon and horizontal to You.

coll buttermilk to Yee, 1900. The buttermilk wont to the poor labources, and 1900. The buttermilk wont to the poor labources, and was accounted side by the furner's own family 5—Yee, 2901. The present system of making butter in large accuracy is not by reaking buttermilk but by separat-ing milk, and the bys-pectual is not so whiceome for buttern consumption as buttermilk?—No. 2009. Yee of bits that the buttermilk is necessary 5— 2009. Yee of bits that the buttermilk is necessary 5— You think that in order to have the huttermilk

They you turns that in count or man of duries being it usuall be measurey, in the case of duries being subsidised, that botternalk should be preduced?—I think that it would be a very vice pervision. The supply of hatternalk is undenhally a need, and any. thing that would supply that need would be very wise. 2214. It would be accessing to specify that the chummy should be of a form that would have buttermille, not separated milk?—Yes.

1205. Ur. O'Burns.—The present churcing in the measure does that, but they have to add its or weter to bring down the temperature, so that the hottermilk

Sir John Liveragene, ... Does not the heat destroy the Mr. O'Bares.....I do not think so. They have a better system now, and the brittermilk is now sold at the ecomeries or given back to the farmers with the

histocranik as good, or meanly as good, no one would no in for an economic neglect, but it is an economy go in he an economic present, to to make the children grow strong. Mr. O'Benru,—It is only in small ducy farms that they show the whole milk.

The Cramson.—It was the universal costom, and need in various ways.

1256. St. Jose Levyagen.—It concuraged the

of perrelige and the making of home-manic bread that would not otherwise he provided?-Yes.

2297. White bread is an occommic matter?—Yes, 2298. In it not targely generates that makes the people we believ's bread instead of homo-made?— They are not sufficiently alive to the importance of the

bonce-made bread.

2299. The Charman,—Do the National school-teach the value of fooda?—Yes; they are deing very good work in that way now, and teaching them to count now under the agas of the Agricultural De-partment?—Yee.

partmant?—Yee. 2500. All those chronional agensics combined must undoubledly be producing an aftent on the preduction of bitms—numbrishmed food?—Yes, and principally the agency at work in the National schools, because the other posteruism is too preductions. It is only one in a time that the demonstor maintenance come recad-2806. One grading pioce of evidence is that the milling of wheat in Ireland is more university fol-lowed than it was ten or fifteen years ago?—I am gled to say that that is so in my own locality. Many small farmers are growing a small patch of wheat and got their own wheat ground. You are fees to lace with the milk difficulty here again, and it knows the

nat of the work out of position.
2008. Mr. Wilson,—I take it that the 2006. Mr. Wilson,—I take it that the essential feature of your desirate in that it is a heef reach?— We are on the dividing line between the country that is berf-caising and the small features. We are on the borders of Co. Cavan. borders of Co. Curum. 2004. The reason for the shorings of milk, before the improvement begun, was that the lond was largely given up to the production of beet?—Yes.

1905. It was not one to the treamery systems.

o. The creamery system has not affected us at all.
2005. You referred, I think, to the new holders who. are taking these plats that were broken up out of the old ranches. In each of the cases you have suggested old federate. In code as no cases you have to us, are any of the new holders emigrants from other districts?—A few are. The Estates Commissioners us very sterngly to import mon to y, which is sirendy orowded with small helders, and I pointed out that the Commissioners would be deing no good to the people they are bringing in, and deing no good to the people they are bringing in, and a lot of herm to the locality, and that if they were imperling people they ought to do it into a district not so congested. Out of the eighty people who have

got holdings on the ranch, we have only six or seven 2077. I think you haid stress in your picture on the country amusements in the old days?—Yee. 2008. World you not lay a certain amount of stress on the anuscepted of an avening in the country 8-I

2300. With regard to the trustees, you say there-is a practical difficulty in getting them?-Yes; so 2310. What measure of continuity have you in the body of trustees you have get to—The Looi Lieutenast has made provision for that. When one drops out mether is appointed, with the searches of the Estate

2811. That is to say, you have a continuous body not dependent on the life of any particular person?—

2312. The CRUTTALEN.—Has no provision been made as to whom this land shall lapse at the expiration of the period of the converty?—These is no provision about that. 2315. Mr. Wilson.—The body of trusters you have at present are, I toke it, like yourself, interested in the social improvement of the country, and are not organised except in this particular project?-That Is 76

2814. I see that you have suggested in your bejef of ovidance that the Wemen's National Health Associamiscent thrmselves, because possibly lands may be davided before people are saver of it, if there is not sumeons on the look-out. I think that there should that the cow plot is secured in any division of the knd, and I thought that the Women's National kind, and I thought that the Women's National Houlth Association might possibly come in usefully

this respect.
2815. So far so you know, there is nothing to pre-nt any association of individuals, either the went may association of individuals, eith Women's National Health Association or the Toy to section 18 of the Land Act of 1909, which 5

2016. Have you a secretary?—Yes; we have a minute book and we hold meetings, and now we shall serve to keep nonumris.

2317. In there approxime to see that the trustees are are abusing our powers can manuscratise the Lord Licutences, but until such monorial is sent un we

2818. In your ordinary routine work you have a toinside book and a secretary 8—Yes; this is the numble book kees, and our soccast belof is sho here. 2819. Mr. O'Banes.—The cottages who are getting the rights to commonage have should union

for the most part, upder the Labourers 2320. And are therefore under the supervision to these people, you know.

2021. Practically speaking, this scheme if earlied out in many parts of the country would be largely concerned with those Union cettages III expect is 2322, And these are inspected under the authority of the Local Government Board .- Yea.

2328. So that it would be quite possible for the Local Government Board to say "We exceed some tion such a cow-shed as you ere putting up for this yearstly accorded one "5--Yea. 3324. And is there no power smong the trustees,

iny, "You must put up a cow-spon, it mass so alle." In that one of your duties as trustee? No. The District Council will have to be saied to give spection in connection with his Union settings. the cettage ask the permission of the District Council I am periodly sure it is only a matter of form, the same time we cannot interfere. 2025. It was not so much whether the labourerhed

2025. If We have a set to whether there was someone abo would see that he put up a convoled that would be suitable. It is governed way what the labourer woods do would be to get a few stocks and put a framewoods do would be to get a few stocks and put a framewoods do would be to get a few stocks and put a framewoods do would be to get a few stocks and put a framewoods. do?-The trastees owapot interfere in that,

2306. Do you not think it would be rather a good thing if you could get in touch with the District Council, and that steneous of the Council were a trustee, to see that their shrink were put up in a surf-

Mr. W. E. Tatterest emercined.

2045. The CHARRIAN.—You are connected with the British Gost Association?—I am Charman of the Committee of the Billish Goat Society. interesting evidence Dunleath as to the improvement of coats by the green ing of brieds. The finit goot has been beel rather pagingersously, and without any design of improving its fermation or developing its milking powe to and, as a result, it is rather diministing from a utility point of ways. We have been informed that by the infusion of new blood and the crossing of the breeds it is possible

able way. What I wish to get at is whether those would be proper expertision to see that there would be no risk of disconinging disease?—There is no provision made. We see only noting as trustees to a percel of land, and there is no question of building hrones at all.

2027. Mr. Witson.—Nor is it your business?—No.
2028. Your responsibility is confined to the cos-plots?—Yes. 2339. Mr. O'Bezes,-They have, in

addition chosen men who have inhappers outleger?—It would come in in that way. In pung our dependen we

could refuse a man accommodation on the plot if we were satisfied that he did not make a proper provision to keep the brokes as he should keep it. 2380. Mr. Wilson, "You could me your power as a lever to make him clean up?"—Yes. 2381. Dr. Mecansux.—I take it that you were in a ery seute state of distress for milk before you estabbahod this volcable scheme of yours?-Not more than

2332. It is very neute?—Yes.
2333. What did you do to deal with the searcity of
milt?—They had to do without it, and they have
goets along the rood. Thus scheroe of ours has not 2034. At the present moment you have not relik?-

2005. In these sufficient to meet the decoupd?-Not \$200. Too would appears of including in your scheme the substitution of the boxe-door dance for the villege hell?-Well, everything has He own place; if the barn-door dance meets the needs and satisfies What about cross-road dances?-The age in gone for the cross-road disposa 2338. In the building of labourers cottages you gethar?—In Ireland the lebysters' conlections is so

gener — in rettal the recognizer conjugation is so separated, and why should you bring them topolon. 2009. The reason I suggest that is, that if they are kept together it would be important from the point of view of the water nearly—The Dutrict Consull had a reason for separating the cottages. 2340. Have all your labourers cottages water?-hat is made a condition in selecting the sate. The Sites Committee take care to see that the water supply is within reasonable distance.

2841. Mr. O'Benns.—Under your scheme you are prestically conversing the grouping of cettings and labources around this plot?—Not necessarily. 2042. Where do the children from these cottama to school; do you select the site in relation to the school?—No; because the ranch will be divised up-independently of the locals of the school; and with regard to encouraging the grouping of cottages around the plet, the Distant Commit will decide where they the plot, the Distance of 2343. In your scheme of sulk denote,

2343. In your schools of milk depots, was it your idea to supply the school children with milk?—My ides were a very crude one, and I had not any scheme worked out. In Carlon I know there is nonething done to give milk at 1d. per quart 2344. My. Wilson,-Is your idea that the school 2344. My. Winson,—Is your sites that the school should be the distributing agent?—No; the centre If the milk depet was established you could grayer

the children getting milk by having the milk at the The CHARGES-Think you very much, Pather Barry; we are extremely obliged to you fir your valu-

to increase the milking powers considerably. Would you gote to text where as to the crossing of Eith bed goods, and tell, in what new multion of bleed you would suggest—I think it, in extremely desirable feat there alread be a cross with male goods of good milking qualities. I don't think crossing with of good milling qualities. I don't think consing with no ordinary price gost will do much good; but if you had goods corning been milling strains it would be a good advantage in Irelevit it would innerwe this quality of the milk and the time the goets were in

Mr. W. X. Tarreron. -- 11th December, 1911.

2547. One of the difficulties with regard to the milk capply from our Lish goet in that it is only available regard most till gott in that it is diff available for a very limited period of the year. These cross-breds peodese milk which is available for a much lenger period thus that from the Insh goal. Have you are experience in the crossing of three become with officer.

reads no experiments from your 2549, But you made no experiments from your own point of view?—Xo. 2349, You are Sentiller with the Continental breede?

—Yes.
2340. Which of these do you think would be meet useful for crowing purposes with the object I have codesvered to explain?—The Toggraining or Swins for the malk supply. The difficulty is that you cannot get

2352. Owing to restrictions responed by the Depart-2351. Owing to restrictions imposes by me repara-ment of Agenesium in consequence of the provisions of discoso?—Yes. The same difficulty is present in Excised. We have some pure goods in England, and by coosing them with others the milk supply has been imported very largely.

2002. As there say goes of the Toppenhare breed 2022. Are there may goest of the Yoggenburg breed ruled in Enginee?—You. 2355, And the difficulty of meeting their introduction

to Dublis would be less, of course, then getting them from their native home 3—Yes.

2854. Are they available in England at reasonable 245. Are they avanued in response to rescale prices?—Not at low prices; because the great difficulty as that we connot surpret from bloody but I should think that what we call the Angle-Swiss and the Kubian goat crossed would answer for what you want.

2355, Is it the number to introduce into England
fercode as well as male goats of the Toggenburg broad?

2006. Goets come to resturity so capilly that one SSG. Orete come to mercenty so repeny the any would hope that it would be possible, even within a very resonable period, to score a sufficient number of the pure male breed for treating purposes?—We of the pure male breed for treating purposes?—We of the piece was severe for crossing pages on the disconnections bereding from young gate.

3887. In this country, I believe, they are breeding wincertailly early—for roughle 7-Ves.

2388. You would like a longer period Yes.

2399. From twelve to fifteen months' 6612—H you

could beed at ten munths it would be an improvement

on your populat system.

2000. Prof. Marries,—Are three Toppenburg goals lege millions on their own seconds—Yes. 2001. And they are able to transmit that power to feir crossed affiguring?—Yes, \$863. You thick that over here in Ireland if we intro doed now blood from a milking strute that it would be siffcient?—Yes.

2003, And the milking strains, which are apparently the feshiousble steams, see the Toggenburgs and the Angle-Swas7-Xes; but not the Angle-Nation. It is more for agreement, 2006. A field Anglo-Nublan blood would mean that you would have a kind of doublined goath—Yes. The improvement you would in Ireland should come from a stein of goals reconvened for there mixing publishes. 2565. What is the ordinary quantity of nells that a said will give, a fear milling goat?—Two to three general; but I am told over here you got more than that 2366. Do you milk them twice a day?—Yes.

2367. How long are they in includion?-- Some are cight or rane mouths 2868, I suppose th suppose the more green stuff they get in

2508. I suppose the more grean start they gre in their food the longer they keep in milt. Yes. 2509. Genzelly, it is understood that day feeding shortens their inclusion?—That would be so, I take it. 2770. See Jour Lescramer.—Have you experience of stall-feeling guste?—Not personally, but I know of it. 2071 Are goats free from discase?-Yes. 2072. How long will she continue giving melk !-2072, there may were not continue giving than.— Five or six years,—Would you recommond the people to keep the male goats of the erossed Degomburg with the Ities goats-the first cross?-I thirds so,

2076. How ald can you use a gost as a sire!—They are beed from very young, constitues from an months, but personally I would better see them alder 2875. Str Jone Lecturers,-If it were not for the quantities restrictions there would be no difficulty in getting the Taggedburg?—Xo. 2006. Mr. O'Burn.—Supposing the restrictions were And the second section of the second 2077. Dr. Macsuman.—Is the Toggenburg a hersless

goat?-Generally, 1878, Miss McNima.-Have you may experience of 1878, Miss McNuma.—Mave you any experience on militing qualities of the Spanish good?—No.
2079, Are gonts titable to contrart discuss?—Yes; but morather is against them.

2380. What happens if they are much expend to wet or dempt—The demp weather is against them.

2882. Is there much variation in the quality of the mult?—There is, MNR. Mr. O'Harry -The percentage of fat in the Toppenburg milk is about 77-I cannot answer that The Communication then adjourned to the following morning,

# EIGHTH DAY .- TUESDAY, 12TH DECEMBER, 1911. The Commissioners met at No. 5, Upper Caulle Yard, Dublin,

Present: P. J. O'Neill, Esq. (Chairman); Lady Everand, Miss Margabet McNeill; Sir John LENTAIGNE, FROM: GEORGE A. MOGRHEAD, Eq., FROM; ALEC WELSON, Eq.; DERMOD O'BRIEN, Esq.; R. J. CAMPULL, Req., B.Sc., Professor A. E. METTAN, B.Sc., M.R.C.VA.

S. W STRANGE, Esq., Secretary. Mr. A. Pocca Wrison exemined,

2000. The Cramman, You are an Inspector in the Depositment of Agriculture, I believe?—Yes. 2004. And the sature of your daties beings you over the country generally, and more particularly in our action with the erromance and their management?— 2006. And you see, I take it, familiar with the conestructuraces under which escentrates oury on their witch—xes.

2336. Would you be good enough to tell the Com-mindian, in the first place, what promittees see taken by areancey meanigers to ensure the delivery of the milk in a circuly condition?—They ought to areanize

to see if there is any suspended matter or visible dist to see it in it is any surposed matter or variet each in it; they should also examine the can life, the neck of the sea, and the interior, if punishe, to see if there are not tenses of that in the corners of the each are my tenses of that in the corners of the each of its multi-indicating that the out has not and any lesson on must be the common of the can or in the milk indicating that the can has not been proposely claimed, or that the milk has not been strated. This is what good managers do. Of commo, an absence.

2.887. If the creamery manager should not be unfathed
with the conductor in which the unit is being delivered,
what steps does be take?—If the milk is not too lad,

what appe does it made to the make it may be very copied indicates the excepting no devrienment, he will probably even the supplier. If it is no built to run through the heater or the separators of the creamenty he may return the refile; but this is governed to a great milk in a decerty community—They ought to examine the milk, and the ressels in which it is brought, hade the milk, notice any odoer that same from the can reducity the hid is taken off, and stir the milk or

Mr. A. Poota Wilson.—Ith December, 1911.

astent by other customatoners. For instance, if a distribed has a mombe of emensions at it, whether they are conjectally or projection, they are all computing the conjectally or projection, they are all computed to lead to milk being assepted that under other circumstances would be repeted. Agrita, in the cast of cocenspayer of the man tredeling in the milk, and there night is a difficulty obser relating such arith. Belows to bit to that part is a superior to the force of the to bit to that plan position.

maged is a difficulty short relating such milk. Because insight get the overarcity manager rate two body, and list a least the control of the

amingen have red, and they probably lack for the industriest of liny which may in Earth a that justice industriest of liny which may in Earth a that justice. Solvene for the Improvement in the Management of Communica, and and that management are advanted that they are also as the Communication of the Communication of the "dirty triffs, or milk delivered an intervention, should be reported." Just you that the longisters in singutury on the constitue of liter's ways, and they have been detected to key spectrate stretchine that point, no design detected in the preparation stretchine that point, no design detected in the preparation stretchine that point, no design management of the properties of the communication of the communication of the Management of the communication of the communication of the communication of the communication of the Management of the communication of the communication of the communication of the Management of the communication of the communication of the communication of the Management of the communication of the communication of the communication of the communication of the Management of the communication of the communica

manages as from possible, on that they will have a We shad have a sorre of skeape, which the instructors of the state of the state of the state of the state of the For simple. I have how a very of states, Sons of them, a third, have been adjuly a state of more hard where a root of fever close, main, as a dyna condition where a root of fever close, main, as a dyna condition where a root of fever close, main, as a dyna condition where the state of the state of the state of the white of the state of the the state of the the state of the state of

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different in good formation.

2606. Supposing, for a meterical by a load discovered 2606. Supposing, for a meterical bid, accordance law, acco

The company of the co

archies to give them ony ossistance by way of instruction. If they did not attend so that worning, and no improvement was observed, we could only withdraw.

2001. How often have you been chilged to have recourse to this remedy?—It counts give you the concerning the present measures, but I recould get them for you. The instruction are varieties 396 connection at the present measures, but I would not like to give any

the present nonzero, and a regard one may to give any suggested without young over the region, it is not 1—30°C—We require the proof of the milk-specific control of the milk-specific control one of the milk-specific control one, and that there was not suggested to the specific control one, and that there was no regard to the specific control one of the specific control on the district in which the Dutate Concord in the districts in the Dutate Concord in the Dutate Concor

said Usuisheda Onling in to operation?—Nov. us have not done to in any sea that I do not ill to mind.

2396. World it not be conspected for these authorizations. The contract of the contract of the contract than the local workerfries have power, thought shart suspectes, to examine the mails suggly at the examine we have no such power, but I do not know how for the contract of the

steeders he allowed run the concarries if they came again, and the steeders have been expected by the steeder of the steeders of the steeders

consum the Directional's Indirection prosided on the Control of t

of Health for the district."

2008. You have recently abstanced from starting
where the district in —It would do no good to start it.

2009. See Anny European,—It she doese still a
southery officer?—I consist toll you that.

2001. The Gaussess.—If thin it is just as well that

2001. The Gaussess.—If thin it is just as well that

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is should be definitely undersoon how for this Department of the control of the c

lo eighty to me nor merrors, and whose me convery appropriate to ear apply its instructions small concomments of the control of the want the services of the untreather we have just a draw. One of two other extract Law will, prince one want the services of the untreather was a control of the draw. Control of the control of the control of the theory of the control of the control of the the amongs of the 'T accenting yelloud the colleter suppliers so being sees and until to pusturelies, and the amongs of the 'T accenting yelloud the control to accept the control of the control of the control of the theory of the control of the control of the control of the tension of the control of the control of the control of the tension are engineed by the Sanitary Adherics.

to accepted, and "A" accepting some two interacts of the matter. This descrite is very little be tylered, and the economical are supposed by the Samisary Authority to be particularly."

— "One community and the conception of the control of the co

2002. 301. O'SSITES—Or milt prevhaser—Les.
2000. It may be sent for condensing purposes?—
2004. The Charasax.—What properties of containg construction shaped to be sent to the container of containers.

of orecontries "request" the impretion of the Deresonaties to purposes.

A the Durine 2405. Frod. METTAM.—I take it the Department's \* See Appendix C., page 361. Emporters are only admitted into the creamories as a matter of grace?—Yes, There are about 100 creamories in Ireland, and of these 306 are recurring units from Instructors, who are eight in number.

106. The Chambers,—So that hide more than 55 per cent. of existing croaments receive my attention whatever from the Department?—Our Instruction

Will See, J. Lady Ryssans.—Be you mean co-operative and propostacy?—They are joint clock, propinitary and co-operative, and it have included hemiches of the condensed milk festioner in the state of the 2000. The Chamman,—Here you been able to de-tain the condense of the condense of the con-traction. termine as a result of your impection whether the terrome as a resust at your praperties without the amount of unlik being near in to the consumery in in-creasing or diminishing?—Speaking generally, if shedol key the quantity of milk received at the creatnesses is increasing, although, here and then, there may be a single decrease; but taking the ereameries as a whole, I am of optimer that the milk supply is insteading. Of course, without accurate statistics it is difficult to make a definite statement.

2409. Can you give me any information as to the number of creamerses that week throughout the entire year?—In the old days, that is, in 1890 to 1895, in the County Lamersek we frequently had to alose down for two or three mouths because there was no milk. would work up to about the 31st December, and prob-ably close down until the middle or oud of March. At present time there are very few creameries which es altogether in the winter. They may only work cless altogether in the winter. They may only work three or four days as the work, but they do not close down, unless in the case of an artifliary with a good Even in County Lamerick they now keep supply. Even in County Limeron viriating throughout the written.
2410. When you spenk of work, do irestment and reception of milk?—Yes, do you mean the

2411. They engage in other tends as well?-I am posting of the nrift.

2412. De you know if it is the custom of crameries to supply milk to local consumers retail?—When I was to charge of creameries we did so, and I understand that at the present day most creameries will sell sell, in small quantities to book consumers. I think I gave in my summery of credence on instance that I came I am aware of two creameries, from one of which has store or new tests and separated rate inscens to 10s. a day, and from the other to £72 to £15 a week in summer, folling off to £3 to £5 in winter. 2418. What I want to know it, does the proce charged by the creamery affect the amount of the yecourages by the creating inten the limited of the re-tral demand; when their prices go us does the demand diminish?—I exacted say that the demand goes of the orexmenes are quite willing to sell milk to aug

2414. When you say "suppliers," do you mone as 244. When you tay "suppliers," do you mean ap-plicants for supplies at the enemerics withour than those who are supplying the creameries with mile?— I should have used the word "applicants" instead of

supplies. Sails with regard to the treatment of the milk, one you tell the Commence exactly to what process that milk is subjected before it is returned to the supplies?—After the milk been examined in the supplier's coupled can, it is tuned into a weighing machine or measuring dram, and the apartity is determined either by welene or weight. In their streamed orther by volume or weight. In their streamed into a large receiving teals, which may bold from 300 to 600 gallons. The mild is sampled before it is turned into the milk tank. From this receiving tink the milk is run through pages into what is called a beater. In this beater it may be risted to a temperature of from 120 to 105 degrees, according to the proofess at the commany. If they to resend to a temperature of from Liu to the degrees, seconding to the problem at the consumery. If they are penteursing whole milk the temperature they adopt is at least from 170 to 178 degrees, but a number of them, in order to raise sare that the milk in thoroughly penteurised, run the temperature up to may be for ten seconds.

2417. At a temperature of 195 degrees?—Yes.

pastenzione, in summer they was protessy some milk to 120 degrees, and in winter from 140 to 160 degrees. After heating, the milk is run through the ogress. After assuing, the milk is run through the sparators and divided into occurated milk and tream. The reperated milk in some cases, in very few cases hough, is partourised and raised to 195 degrees, froquerily cooled after that and conveyed to the reparated mile sank. Where there is no pasteurning of the separated mile, it is simply conveyed to the distributing tank, and is weighed out to the suppliers in proportion to the quantity of milk they had delivered.

2418. It has been represented to the Communion

2010. If his over represented to the commenced in that expected milk has been the means of discontinuing grows of discontinuing the distribution which recoveries have been working; would it surprise you to bear that studented male?—I have been the state. may be, and possibly has been, the means of spread-ing discuss either accought human beings or estate. We advace all greameries, and I have done so for from them to eightoen years, to pusterness their milk or their separated milk. I may mention that I think I was the first person to pusternias whole or separated

in summer they will probably heat the

milk to Ireland.

Salis Miss McNutta.—You say that the separated milk is brought to 200 degrees; for how long is it kept at that? If may be ten seconds on the heater, then there may be mother twenty seconds by the time it arrives at the top of the cocler, but during that teme it would have been cooling slightly, and it would probably he only 190 degrees when it resched the top 2420. So that it is practically mised to 200 degrees for about half a minute only?—Yes, in some cases; 2021. Sir John Leviatore.—How many crosmeries

particurace?—Out of the 596 that our marmotom vana 171 have posteurising plant. 2622. The CHARMASH.—Here again we have evidence that there is opposently no uniformity in the methods restised by the different creameries; some patteurise and some do not "-That is no. and score do inst—That is no.

2423. Re Jenn Lurranson.—Do they postcurise the
expanded milk before sending it out in subtime to
the previous pastermuzion?—No one postcurion
(size. After the while milk is heated to a temperature of \$60 degrees or ever, there is no need, to my mind, to heat it further, and in no country, to the best of my knowledge, so post-turning does trice. Out of these 212 consensates, forty-three engeluty pathersise of these 121 consensates, forty-three engeluty pathersise the cream; and one regularized the sequented milit; the others to it irregulation. The one does not pus-1845. So: Jacos Lawrence—The one does not pus-1845. So: Jacos Lawrence—The one does not pus-1845. So: Jacos Lawrence—The one does not pus-tage to the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the con-tract of the contract of the con-tract of the con-tract of the contract of the con-tract of the contract of the con-tract of best of my knowledge, as postrurning done twice. Out

2415. The Charmen, From your experience, do on think it would be advisable for the protection of you think it would be advisoble for the protestion of the public health that a maxim method should be laid door not irrested on in the freedment to which suff is subjected in all reviewment—in far as pas-tages, and the protesting of the property of the second of the argument and good, I am in ferour of all overscenies doing as. Protesting I may say, I say a crest believer in the posternisation of the whole contains the first property of the posternisation of the whole of the second protesting in the protesting of the whole on a great believer as the posteriors on the wave mills, and the this remon, you extract parteurise dirty state milk. It does the mostlemery. 3800. Mr. Wilson, "This is an automatic check against state milks."—For. I may say that there are two distinct systems followed. In the North, for in-

two distinct systems followed. In me tease, we storee, the Saturday night's and Sunday meeting's milk is kept at home and churned. In the South construction in any time rise even twice a day on Sun-days, and we had to be there on Sunday morning and evening; for symmetric that the miss come are are quite sweet, and the machinary no once a day only, and that is the general custom at the prosent moment. The few occanonies that are receiving nills twice a day will drop it in time on account of the increased any will stop it in time on account of the increased out and cogenies and the difficulty of densating the plant between times. Centing back to the point above, Studiey's milk, if it is not charred at home, it may be isled over until Meeday, and it may have gue slightly seng and he not sufficiently seed to stand the 245". Mr. O'Brits.—Though not what you would call dirty?—Tos. It may be swoot and them, but not sweet enough to stand the heat in the pistermanteen. pends very much on the quantity of milk the heater will hold willie working. In cases where they are not

Mr. A. Poola Wilson,-12th December, 1911. 2428 May McXXIII.-You said the

culty in protourising dirty stells milk?—Yes,
2429. There is no difficulty in protourising dirty
milk if it is not stole?—No; that is right was a diffi-2450, As a matter of feet, duty milk rail keep a little longer after pasterning?—That is quite true. My own caperiouse is that where posterrisation of the whole milk is followed it invariably leads to create care being taken of the milk, and it has to be kept

28SL I was not thinking of you particular point with regard to recessories, but look any manufer-standing about nease as the effect of perturbing, I was speaking more with requirit to milk that in sets whole?—You may take whole milk, olean it, and pus-

2682. Mr. Cameura.—I do not think you have quite appeared the Chairman's question as to whether you think pasteurising should be universelly adopted?— Personally, I am in favous of universal pasteursation. 2458 Perf. Marron.—Of the whole mike—Yes, and certainly of the separated malk. 5454. Mr. O'Buxs. -- If you pasternee the accounted milk, does not the inter-making prockenily desired would not like to give an opinion on that myself. Recent irrealizations say not. I would refer to articles on "The ventility of tuberels bouild in Butter and Cocces," in the 26th Annual Report of the Bursts of Annual Industry, Department of Artical

the Bertell of Ammer Industry, Aepartition on agroun-ters, U. S. A.

2485. Is it not also the opinion of a good many people that raising the milk temperature to pertouris-ing point affects the quality of the batter afterwards? ing point affects the quanty of the batter measurement.

—Personelly, I have seen perfect butter made from milk that was heated up to 200 dagrees regularly, and not as an experiment.—Le the Danish milk bested before it is separated.—Their custom is to best the whole milk to a temperature suffected to entitle them

to separate the milk efficiently, and then they pra-terrise the cream and the separated milk assembles: but the present tendency is to pasteurse the whole mik as it comes in.

2677. All the milk as Demon's as pasteurised 2—Yes.

2687. All the milk as Demon's as pasteurised 2—Yes.

2688. Is it computatory?—Yes. The veterinary police
arik into the creamery and take amples, and send
them to the Laboratory in Copenhagon, where the
amples are consumed to see whether they are pasteursed or not. It is a simple test that is surfied,

sk could be applied by any creamery manager. 2439. Prof. MEDTAM.—Would you file powers some thing like that yourself?—I would like to see pasteur thing like that yourself—I would like to see pasteon; auton made the rule. I think it would be a good thing for the country. I am strongly in favour of it and would like to see it mode compriser,—and would like to see it mode compriser,—but the country of the c

the state milk.

244). Would that milk be agreeable to the malate?— Yes, and give no indication that it had not been re-

2442. Sir Jone LENTESCHE.—In that the only test?— There are the elochol and the seiflity tests. The test

is very simple.

24th If patternising were mide compulsary, what
would happen to the stale milk that now arrives on
Menday meetings?—It would dampens. 2666. It would be kept at home?-No, the farmers

would probably take girater ours of the milk—cool at, so that they would keep it under better conditions. 2445. Man McNenz.—Milk that is produced under clean conditions may lest some dayst—fee, suscently at this access.

3409. At any time, if it is kept coal?—Yes. We have not, of counts, lee us that country, so no farmer can use it; but in Dearmark, all the log mulk distributing companies give see to those mulk nephiers.

3447. Set Jonn Languages.—La the North they often.

course milk themselves?—Tee, Settuday's or Sinday mousing's milk. They want a certain amount of better during the week, and they think that is no easy a

tener with the encameres - Nos at all.

2449 Mr. Wilson.—In your impectors you go through a number of enumeries which have no partentising plant?—Yes. 2450 Your figures heave 287 encountries impected and Aust games over has a conserve improved that have no particularly plants—Les. 38GL And there are 300 other creameries that you don't impects—Les. 24GL Is at the presumption that few, if any, of these contains pasterning plants—I don't think many of

them do.

2453. Probably out of all the commones in Lichard, with the 171 that you know, not more than 200 al-together possess pasteurising plant?-Put at between 250 creameries which may be partrume either the eream or senamical milk or both

together as milk.

2454. See Jonn LENTAINN.—Are there any difficul-tion in the way of making it compenhers?—The chief difficulty is the experse of installing the plant. You would have to give time for it to be done. I would

2455. Mr. Winson.-Can you give us any evidence 2435. Mr. window.—tan you give to any evanage as to the approximate cost, per hardred cown or gillion, of posteratoring plants.—I have no figures here.\* In varies. The cost of installing the plant might be us low on \$10, and it might run up to £200 or £300, where as And, and it might rise up to 2500 or 2500, which a larger today has to be installed.

3456. The Charman,—Can you tell the Communion what revision is made at the promoters, you respect

for the cleaners of the milk vessels after the surofice. are taken out?--At most of the recomerce that have on some once water jets as well, so that the suppliers on rinse their caus and then sould them after they have delivered their mile, but it is a difficult matter to

have activered mean man, we are get them to do so.

2487. And three are no means of compelling them?

No, unless the creatory owner makes a rule to that
effect. The Department have no means.

2458. As a matter of fact, you have no knowledge of ny oreamery that has made it impossive on the perony eresmory case has made it impossible on one pre-sors supplying milk that they shall elemne their vessels hefore the separated milk is returned?—I know of some recomence at which it is done; but whether they make it imprestive or that the supplies have found it to their advantage to change the case I carmot say. it to their seventage so cannot the case a control one. This cleansing casules that the can gets a good scald-ing at least once a day. There are a number of case or ring at least once a day. There are a number of cars or milk churus used over the country generally which are hally designed. The milk churu should be designed so that it can be easily cleaned, and if not easily cleaned you find it becomes dirty. One should be able to reach to the bettern with the hand, and the corners about he

to the bettern were not amon, and the corners amount ne rearried, and the whole can should be dipped in melted lin. I have seen a narrow measuring riray inside the churns, and on taking this off, often found that the \* The witness attracement's furnished the following statement as

I have since worked out the approximate cost of pasteuroung the suffact a creasury, and find it as follows ;---Per Gallico Per lb. of Butter Increased running cost Increased cepital charges, Interest, Dependation, and Wages of cases assessant for cleaning, &c. -0134 -604 to -048 -6684 to -1128 (674 to -0514 -0976 to -164 1/25th to 1/17th 1/11th to 1/7th of a pexay. of a pexay.

the charges for (6) are naturally reduced if the amount of mile treated in increased. Cost of hotting, &c., would be so soldition to above.

ealdering had been penkeled in one spot, and behind was a mass of potent suffic. I don't think there should be any of these strips soldered on the intelle of the of registered. If that were done, would it not be ad-

2450. Do you think that there are always satisfactory means adopted by creameries as to the disposal of the refuse?-In most once it is extended only enough. few cases we have been asked to advise as to the better few anose we have now need attack to arrise as to the below disposed of the arway, because the creamony had been charged with polisting a tirer. The separator almo, which is often therewe set and captryl descrued by deep, gene, fowl, etc., should be humed, as as the law ur Demanck. I have frequently soon dogs in a most emaciated exclusion using the staff, and have made inquiries which satisfied me that their condition dogs died as a result of fats practice.

200) Prof. Marray, What is the advice given in

such a creat?—It will depend on the setuation of the particular occurrers. Where the situation is concentral the celly remedy is a large covered septic tank and becternal beds, but the septic tank must be of such a capacity that it well look from ton to fourteen days. especity that it well hold from box no nouncest ways free of the servage.

2465. Ser Jone Literanswe.—Is not there none pro-cess at present in Dublin for turning the sways into fertilizers!—Tex. So far as it has been applied to partly consumer, swamps it has not, it my openies, been a success. It is no the experimental sings at present,

Mr. Carretta.—It is corred out experimentally, but there is a royalty to be paid before it can be put into the creaments, and the creaments do not like to pay The CRAINAY,-Have you over seen

tweets throughout the country say detailer results from the superiors appointed by lead authorities under the Datines and Debroked Order?—It have not some three years and Debroked Order?—It have not seen three years measuring extraoreities, soil. I have not heard of any defractic results, but three may be there, and the second of the second order of the second of the consistency which, had the Debroke Order applies offered, oxide not extraoreity and order applies to the Second Order of the Second Order of the Second to the Second Order of the Second Order of the Second Order of the to the Second Order of the Second Order of the Second Order of the total order of the Second Orde

to the farmer's promises, was discoulty.

1694, So for as you know, the public health authors, 1694, So for as you know, the public health authors this do not immate on hydrone centifican heing observed in the disposal of sewage or the electrices of processor? It would not like to say they don't. No cases when I would not like to say they don't. No cases when I would not like to say they don't. No cases when I would not like to say they don't.

went to know exactly how far the existing powers are to know exactly how far the existing powers availed of he the local authorities. That was the are would of by the look authorities. Their was the recome I saided the quantities.

2405. Rody Evranara—I would like to dense your streament of the contract of the contract of one between the contract of one between the contract of the contract of one between the contract of the contr need not be registered." One of the others of the Local Government Board said that referred to crossi-ones. Is that your experience—That refers to the home butter-making, I below. There is suchbar pure

graph water, I man, were to ecomparity. If you look at the interpretation cleans, Article 28, you will find the expression "cow-leeper" includes "say person who helps a cow or cows, and confinencedy or regularly or habitually solds or supplies the milk of such one or ce habitually selfs or suppores the mass or such on corso, or the butter fat contained in it, to any person, eccumery or factory cagaged in the making of butter, discise, cream, or conference with.

Side, Quite so. That does not say that a creamery, shed need to registered—No. As for an my know, ledge goos, a creamery need not be requested at all

from the point of view of yether means, we wished milk.

2407. First. Marram—Le if not regulated as a factorized from the first of the property of the policy of the property of the policy of the policy of the property of the policy of the p

to a more men me petre or ther of the servey and books of the employees than that of the public health or quality of the produces. 2699, St. Jones Learnance.—It is proposed that doiny, keepers and mills producers should be incomed instead

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Mr. O'Brasor,-At present the oresmeales only come under the Dearse Green of they sell male.

The Chammen.—See John's suggestion is that the

should come under the same provision is those who carry on a small reduct brode-From the Departmental point of vinv I don't think the matter has been eco-ridated, but, perconstly, I am an favour of licensing durymen and crossinguis. 2470. See Joses Lecensers, World the creamery people be likely to chica?—Some world, and others would probably welcome at. B is not a question that hee here discussed amongst them at all. 2471. The Charman, You see familiar with the dis-

doction of the creamery system at these dartness. Will you tell us have far you thank the introduction of the creamery system has affected the supply of mile gene-rally to the humber observed "high I got to extract the contract of the contract of the contract that Y Con will notice that in Article 1, Clawse 5, of that Y Con will notice that in Article 1, Clawse 5, of the Durine and Convokedy Order, the furnar who made batter at home med not be regathered, but he may well intercraft and apparated or with milk. That is con-

tottecrutik and asparated or thim suffix. That is en-tailly understanding——In spite of the interpretation. 2672, Mr. Wilson,—In spite of the interpretation. 2672, Mr. Wilson,—In spite of the interpretation of the to meet whole rufts and severa suffix only—Xes, I think so. Under the Food and Drags Aces they as quite different articles; sed in the legislation that is below proposed in the lane suggested that miff shall likelihe evens, buttermink and asparated milk in other likelihe evens, buttermink and asparated milk in other

o cover this point.
2673. The Channas, Another witness stated 24-6. IDS CHARMAN,—Authors writings stated the bloom was seem analyzing on this point, and in suggested that the term "mile" should cover all the products of milk?—Yes, it should. B is absort that a man may deliver betterrally or separated milk or star mall; and not be registered as a roader who should extern milk and not be registered as a roader who should the milk and not be registered as a roader who should have been supported to the contract of the star milk and not be registered as a roader who should the milk and not be registered as a roader who should should be should be a supported by the contract of the contract of the contract of the contract of the should be a supported by the contract of the should be a supported by the contract of the should be a supported by the contract of the should be a supported by the contract of the should be a supported by the contract of the should be should be supported by the should be should

strum milit suit not be registered as a veolece who second cores under the Order. Roll y refere is the american core under the Order. The Profess is the american to the Order of the Order of the Order of the Order I per la an order of the Order of the Order of the I per la an order of the Order of the Order of the I per la an order of the Order of the Order of the June 2015. The Order of the

and I did not pay as much attendant to the home busine-making as ingular how done; but there were difficult making as ingular how done; but there were difficult to the survey of the survey of the survey of the 24%. Which during was set in proposes them so more than all present fairly was lets so; bossues now make the survey of the survey of the survey. 2477, A filled soon is produced, but who first in the survey of the survey as my spanne goes, I think it as available to the poore-classed now here for They may not to overseaper and bry a pennyworth 2478, Miss. Mr.

bay a pronywerth.

201R. Miss. McERILL.—Those who are near the
artenomers—Yes. I do not know that the function
have changed at all. They are quite offling to self
have changed at all. They are quite offling to self
such. I have beside up and down its exactly that
people studied milk for nothing that they would not
quest to the gallon sometimen; and now not throughout
and displaced before this histories and the interes as to
are displaced beforeous the inhurser and the interes as the trapasting of cores, gone, &c.

2679. Of course, it is guite a common thing for trained relations to exist between people, and whilst these element relations last they do not inside: but,

speaking from your experience, you do not believe that responsible for the restriction of the fintelligible been responsible for the restriction of the flantification of trill strategies in the dictrict flatter excendent been been established.—I do not follow excendent been been established.—I do not follow the flatter f

Mt. A. Poors Wilson,-126 December, 1911.

latourers, etc., makes no difference to him. In the Milk and Dumes RH, introduced by the Bit. Hea., J. Euras, on 26th May, 1009 (Bill 2006, which applied to Ireland, the following clause occurs.—"Gives M (J) in the Art.—The expressor duty includes any wilk store, milk shop, or farm, farathouse, corolard, milk store, milk storp, or other place from which milk is opplied, or in which, for purposes of sale or manufacture into buster or cheese, milk is kept or used. The expression "detrymno" includes any con-lemper, purveyor of milk, or occupier of a dairy, but shall not unshale a person who only solls malk of his own cows in small

person who only sells milk of his own tows in 19963 quantities to his workman or neighbors for their accommodation." The Bill has not yet resend, and I 980. It has been represented to the Commission of ready that the deare of the milk suppliers is so has to send large quantities to the creaments that they do not even retain a sufficient quantity at home for the

is stated, but what information I have is opposed to that view. They supply the last drop to the commercy after they have provided for their home requirements; but no people run their own families short from a desire to send it to the creameries. 2681, Sir Jone Lawrencem.—In your opinion, the

2941. Bir Jons Levenson.—In your opinion, the existions of the creative; is tending rather to increase the supply only improve the conditions under whoth the milk is produced?—On the whole, you. 2943. Dr. Nicoeman,—Whot projection of the milk capply of irritant would be absorbed by the creamerica? —I have not got, only figures bort. I have earlierated The Currency,-I am quite sure it would estudy Dr.

Monthead if you gave a percentage, 2480. Dr. Houseman.—How much is left for ordinary it.

2484. The CHARMERAN.—I would like to know your
where on that question. It is well known this the
creamery owners make a contract requiring the sup-

place to send them the entire milk they produce for a fixed period?—They is a new rule introduced lately into the rules for Co-operative Societies.

2484. Would that create a further difficulty with that way by supone. I do not think that any manager or committee would interpret it in that way.

Mr. O'Bazor,—It is simply to good squires has

going over to eacther creamers 2495. The Cramman.-Do you think it is possible to establish a system of winter starying in Iralized which would be consenticely sound?—That is a question which I think you should put to the next witness from the Department. It deals with the cost of the productors of milk on the farm.

2487. If do not went to press you. You are aware that malk is sont by rell from different parts of the country for sale?—I have seen it sent from Midleton, County Cork, to Doblin.

2450. And you are also severe of the fact that some London gets ate milk supply from all

Mr. O'Bours .- Tippersey sends milk to London. 2459, Mr. Campung.-It is only more the drought ome that any large quantity has gone?—It is a grow-ing business. It has, perhaps, developed more this year than usual, but it is a growing business. 2490. The CRAISSIAN,-It has been carried on for two

or three years?-You 2491. Sir Joses LESTASSER,-Have you may know. 2491. Sir Jose Liserasore,—nave you my ledge of the condition in which the milk arrive?—I have seen it arrive clean and good, and I have seen it and here clean and good, and reference to the seen the seen of th

very low before it is shapped; perhaps down to 40 degrees Febr.

2490. The CHARGELY.—Is the milk sont by creameries 2498. The CHAIRMAN—As the Mile sone by Greatments or Private suppliers?—From creamains.

2498. Dr. Moomman.—The raw mile?—Yes. It might in some cases be cleaned by means of a separator

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2405. The CHARMAN.—But it is not perfection?— In some cases it as, but not always. If depends on the buyer. If he degine it to be perturned it is pas-tourised at a low temperature for pechaps half as bow. 2409, Sr Jegy Lucranym.—What would the tempersture be?—Something from about 140 to

degrees.

2077. The CRAIMMAS.—Can you give the Communion
any after of the increased price charged for poste critical
mail: as compared with non-pertounised mile?—There
mail: as compared with non-pertounised mile?—There sing. Some firms want it pastcorised, and offer the

2698, And so far as you know, nothing additional in added to the contract price because the buyer requires pasteorised milk?-Not to my knowledge, very hitle more to pasteorise the milk.

very many more to pasterense the rime.

2009. The reasen why I press the question is, it was rether suggested by some of your answers that the cost rether suggested by some of your names in that his cost of pushersizing in some digines prevented economy; perpendent from antiquething milk to parternantism.—It is the cost of installing time plant—the capital onling—then is the difficulty, not the running costs.

2000, Dr. Mourman,—Bo you say the milk is separated.—It is the med by a spractice. That mount that

which is the best way of cleaning rails that I know of.
2001. Mr. O'BREN,-Yeo one use a hard separator? 2503, Dr. Moosuman. -Would that remove any of A. necessaria.—Weath that between any of particles?—No. It is a regular practice to the by centralized force method of streining-ach more efficient. These machines run at

2500. Mr. Wilson,-World that drive off tobercle bacilli? Prof. METTAM. -You.

2504. Dr. Moosman,-Is that an expensive as 25; one to do 600 pillons of milk would need as low as 25; one to do 600 pillons of milk would be about 250 or 270.

2506. The CRAIMMAN.-Would it ha possible to us a hand separater for the purpose you have neithered on the postures where the milk is produced before the

9907. And that was at the time when the consequenoes of the drought were being feld scutchy in cur-

2008. You have given us an interesting table with regard to the number of miles cown in Broland, and you have also green the percentage of the number of miles cown as compared with the ordinary number of cettle in the coming?—Tex. (See obtanic, p. 67.)

2100. The number of cows would seem to be fairly 2010. It is not increasing or diminating at any exmordinary rate!—It is slightly on the increase. 2611. The year 1908 was the largest number you got 2011. Any yeer MMS was ma surpess number you got in the cycle you deal with—1,200,227—Tes. Be a difficult to make comperisons between our year and another. You have to take three figures over a partial. The tendency for them in to increase. They have increased as a matter of the

2512. You have no figures to enable you to determine what the entire milk yield is?—Say you take the figures in this return as to the number of miles cowe, you have to estimate the probable milk yield at, say, 400 sallage per cow; then you have to take the butter export and the probable home consumption; then you have to work hackwards from that to flad how much milk there is for consumption. I did that once. 2015. Mr. CANTERLA, It is very unsatisfactory?-

It is not very reliable.

2314. Ser Jons Lewingon,—Are there may figure to show the quantity of milk expected to Leaden?— Yes, to Green Britain as a whole. I have than been that the least of the second that the least of the last of the least of the second between the last These per the feature are the last least of the last of the These per the feature are the last least least

	Yesz		*Whale and Separated MMs.	*Cresss.		
1554			19.0			
1145			19.00			
1995			17,31			
			5.42.8	6,008		
	111	200	19,496	0.064		
		***	1,006	10,351		
1500	111	***	8,816	23,809		
		_				

"There was no extraordinary quantity of milk expects
in 1968 to extraordinary quantity of milk expects
in 1968 conversed with other way but I shield

to the conjected with a fair and with the content of the tourscore for it is increase. And the same way the tourscore for it is increase. And the same way the conference of t

Steps: 4 to 5 p.c. 4 1 p.a. to 92 p.c. With steps of to the food value of mile and separated with steps of the season of the sea

gather of separated units will print Life Celebres, the services are the Life Celebres (see "the Life Was the could of south missions with the large of the could be compared to the could be considered to the country of the country

to 6 lits. of separated sight will found it away the insertionated of profited of three shows the same value in content of profited of three shows the same value in the content of the content of the content of the Christian and south of Lit lake loves. 24: in the content of the content Separated milk design the concern Wincook—Till Disconduct, 1911.

Separated milk design the concern is alway perchanged at as low as [d. a gallen in the country. A comparison of the cost between separated milk and ten as between the country. I provide the well of the cost of the cost in follows:

1 provide the well cost of the c

I pant of tau will goat:

j can, by the at \$b\_i per lb., 27144,
buggs, sh \$b\_i per lb., 27144,
JURL 1, j so, 1214,
JURL 1, j so, 1214,
I plot of separated milk will cost.,
A \$b\_i per gallon is country. 2324,
A \$0. lb, or gallon in country. 334,
So that soparated arill is a nextle charger beresse, in
the superstanding the state of the superstanding milk by a
like test in a benessing single his persuated gallic byes.

So that separated stilk is a much charger herees; in the best country, and very little deserve than test in each while the country has been seen with the seen between early the separated stilk has considered variety. This is the companience cost of two and a spreadismistly equal food value ——

Both 2 one. Both 2 one.

1 plus of separated milk, 2841. — Potanoe, 3 one.

1 print of separated milk, 28s1. Polatone, 2 con. Turnipe, 1 or. Turnipe, 1 or. Color. Milk, 1 or. Color. Milk, 1 or. Super, 2 con. Turnipe, 1 or. Color. Milk, 1 or. Super, 2 co.

Thus, it is not of 144, you have a most with a few has equal to the obtained for \$6 in 10 as it a three equal to the obtained for \$6 in 10 as it a three equal to the obtained for \$6 in 10 as it a three equal to the obtained of the obtained of the few and protonomy this is the cold that of accuracy of these figures could can be disputed, hose accuracy of these figures could can be disputed, hose accuracy of these figures could can be disputed. In the contrast of the cold of the contrast of the country of the cold of the cold of the properties than it hos been a part of the dark of children throw the first of the cold of the cold of the cold of the three is to be the cold of the cold of the cold of the congress when the cold of th

2000. Dr. MOGRINSO-De you know if the evident Chous were based on milk that was personnel. These Chous were based on milk that was personnel. These control of the post of the personnel of the control of the con

of some of the dishumbes on mention in more reas.

For example, so "For each Delease," by Hothkinn,
199, 120-125.

GRAINERS, CHARLES, When you in your experience
Field. The Charles, which was been established by
eventurious for the set in prefer has been consumerations of the set in the person supplying the set in the reason of the field of the person supplying the set in return in the field of it as food at some of the
consumera.

2002, 1.6 is add small, or it is strain to a large conferded population to be point read the set—I know there is

a good deed of it sold, whitestake and retail. Supermised multi-contents to Delbin. It is prefix and by balency to make contents to Delbin. It is prefix and by balency to lead, but I derb's know of two was of it being generally old, as a bod in Balen, and I think that is a ngr. and the second of the balency of the balency of the second of the balency of the balency of the balency of the tenth it is supermised arms. Insert of the most of the balency of the balency of the balency of the balency of the second of the balency of the declarates. Note that the summer of point in this declarates. Note that the summer of point in this content of the balency of the balency of the balency of the deal of the summer of the balency of the balency of the deal of the balency of the summer of point in this propose once 1000, over.—1000, 20 M: A. Posle Wilson.—12th December, 1911.

1992, 200,544; 1903, 260,120; 1905, 290,220; 1905, 285,000; 1905, 290,240; 1907, 247, 1907, 247, 1908, 260,250; 1909, 292,041; 1919, 242,141. Here you say recall hoolysteps as to be yell off multi-dependent of the yell of the property of

has no new.

Selfic Have you may idea of the value of the milk, as compared with one's milk?—I (thank it is richar, but I have not made any analyses in meen's yees." I did so some years ago, and there was presidently solding in the difference, as the as I recomber. They used to some good's milk to the coessacy, and you could not

m the difference, in the not returned. And you could not bell the difference.

2006. And it is not rejected there?—You could not bell the difference, if it was clear.

2027. Moss McNaux.—And not too old?—Yes. I obtained good's milk for my children in Dakkin. I had to give up in two latchy, as I could not get it.
2228. Sir Jenn Expansion.—Where were the goats kept—One was kept along the milway embankenent, the other was kept of in the country.

the 600FF was step cut in the country.

\$222. The Cassiman,—How is that decrease second of fee?—It is chaotistly a matter of opinion when the chorease may be attributed to. I am of opinion their the question of temporary that it is desirage, by goots may have sensetting so do with the

2500. Do you know anything of the conditions under which made is condensed in this country.—I have been through condensing faxories. I have been through several decleties, and to connection with my distinct have had be week in co.

2011. Is that an increasing or diminishing twelve-According to the exports, it is an increasing teach. 2006. It is price past by the condensang factories in any way governed by the prices paid by the externnear—vex. They have to pay a price open is or more than the creameries pay. In parts of continue Litaucide, Typersary and Code you have the condensing

Honesele, Tippersay and Ook you have the condensing factories and the propertiesy and cooperative ocean-cree compeling fee this milk.

2358. In the case of milk sont to the condensing factories, is to befield. "Two, at about 100-120 degrees

2884. How long does it remain at that temperature? —Until it is reduced to about one-third of the original

2005. My reason for soking that question is that I have seen malt conveyed to anothering factories. It contains first first in remains that were not appetuning to look on 7—2 have seen until go to all seets of place in the same confilient.

2001. Find, Marray—Bor you think the onlike as controlled a statembal—From the melbal good of view, controlled a statembal—From the melbal good of view, and the statements, there is a good double of results, or there is the controlled good of the contr

could not be thoroughly cleaned unless you join a young foll suddle is, and I don'ted it it could be done even then.

1858. Do you know anything of the supervision that is exercised ever the supply of milk to conficeed funtries. There is no supervision except that of the owners and receives of milk on the platform. And will wave be anerted under any conditions they please.

owness and receivess of milk on the platform. And milk may be accepted under any conditions they please, 2509. You seem lines use stale milk in that particular factory?—I have known stale and dirty malt to be cent to endered milk factories. 2540. That which had been conformed by creamciant.—I was been told into. I know that milk has

that kind, and that such elections have been used in condensing milk of that character.

2241 Mr. Cameratta—I have known people do it.— The have to reducely to be east before you can con-

tog age to resince one came below not call the fense. It would much in the condenser if you did not old sods. 2522, The Cransus.—There is an injury to mile when subjected to the various preserving processes?—

I do not quite gather the peans of the spreedings. 2448. Score of the assimthet experts when raiked if mills could be preserved in any from in which it would retain the properties of fresh mills, solved that all proseases by which mills was prosured injured in it is essent by which mills was procured injured in it is may be a support. So it is quite possible that stalk mills, when relaminable treated, might be used in conditioned

\* Statement subsequently supplied by Witness.

ANALYSES OF GOAT'S MILK.

Observer	Water Pas. Sepan. P			Proceeds	Ash	MILK BY RICHHOND.							
Konig (Awrage) Mour and Scridet		4-46 4-56		-26 -29	observer,		Water.	Fat	Sogar	Testrada	.des.		
Pleischensen	85 5 86 - 15	4 89	3-60	5 00	- 73	Cow			57:10	3-90	4-75	3-60	-75
Fichmond Vorkdor	96-16 84-48	5-78 6-11	4-09	3-94	-87 -79	Gost			86-64	4 63	4-22	4-35	-76

The goat's suffix to algority rether in fits with posterials and porrer in sulfs super than cow's suffix. As a whole goat's milk contains zone due matter than ow's suffix and to stant of genetic value as a flow.
Goat being stated to be posterially from the trainer subsequence, suffix the content grant's ratik contlict in wery high
Goat, whole no walk, very fruite, and whole, as compared with the cont of cont's ratik, contents goat's such extransity
valuable as a flow for arbeits.

The witness subsequently furnished the following statement:-

# MANUFACTURE OF CONDENSED MILK. The temperatures used in the case of constrained repressed malk, which is the kind most generally meanthroused to

The milks supposed as a framework of the control of

method of preserving milk by which you can keep it 2544. You subscribe to the view that any process to which milk is sufferted for preservation is injurious to six considerances? If do not may injurious, but it

tially, if not wholly, destroyed in that case.
2047. The Charman.—One general question, in conmost. The Charmers.—One general question, in our classes. I take if that you are of opinion that it is examinally desirable, for the protection of the public health, and in order to secure to the public that they code should be laid down for source or a certain assount or experience. There would be a difficulty in flying down a code, although I may not be thinking of the same thing that you are. When I speak of a code, I think of a bot of risks and regulations. I am rather against precise rules and regulations, because you sometimes find a difficulty in

2548. With regard to pasteumenton, do you not think that a commercy that does not submit its milk to this that a commercy than does not servere on mine to ten recover so correspecting unfairly with another that does?— It is a matter for the enumerator—at is a business matter. If one creamery thinks it encourages more continues by pasterming the separated milk, it is were to adopt that plan.

2549, Woold you be guiled by the opinion of attention as to the effect of pasterminion—I agree

that page-grantion is describle, and I consider that it ght to be made compulsory. 2500. That is exactly what I wanted to get. If one of one is produced under more commenced conditions than the other, and the absence of the expenditure

perhaps, the reverse.

3441. All creatively butter is not produced under the same conditions?—That is us.

3458. See Jone Lastraton.—Would you tell us when is the proportion of buttermilk and separated milk that polices?—Take at us percentages. For materior, a creamery that is selling circus takes off the cream true cent, or over of separated male. In the ordinary buttermaking crosserry, the quantity of espansied milk states from 80 to 80 per cent. In addition to the recognited nulls, it is the rule that about 5 per cent of battermik

the separated milk.

2537. There are regular ade of the hotteenilit?—
They amostumes sell it lecelly for pay-feeding. The
suctionality of course, is simply the exposated milk that
is left in the orean, soured, and then webded out. At
the boare desiry they take of very like cream; they
leave a great deal of separated riffle in H. At the
convery they take of their errors. The butterridik
to be the desire of the convergence of the control of the
converge they take of their errors. The butterridik versacry may fake of thirder cream. The butterrelle from the ordinary creamery is, as a rule, more diffused than the ordinary home-rande buttermille, but it is the expansived nelle that takes the place of the old skim

. Separated milk out he sound?—You you add about 10 get cent. of water, and obers the rolls, you get so smitting of buttermilk that will pass osi people. 2555. Have you say expensess of chemical preserva

2555. Have you say experience to the same property tives in milk at contractive S—A local obsenies informed the thin the make of bone and and other property.

2556. Dol he say what other chemicals were und?-No others. It is confined to bersele setd, and some of the other patent compounds called mult wavetcorre, do. 2507. This is yather objectionable?—You; and I do ares, turn is yather onponsonment—1031 880 1, 80 nos think they ought to be permitted in the new nells. 2358. Mr. O'Burns.—Do you think they have a deleterous effect from the public health point of view? They are objectionable.

lowing experiment in heirig tried.—Deering the matter of because, a planner, and Federancy, a minimum of bet, per gallon for mile of average quality is governood by the Department, and sight, during the smooth of soften, but or guarantee that it will not be less than the contract of th of milk supplied over what they produced last year,

2561. How long has thus been in force?-The exper-2001. How ledg has their been in forces—The experi-ment without the penuty per gallon for the increased supply was entrued out fee three years at a creenerry. With the addition of a penny it starts thus winter. Then was a slight increase in the nells supply at the first owners, but the trouble we found was that there complying with them; and where all you want is changing, the rules and regulations should be such is a flowing population amongst the cows, randoming it were difficult to determine whether there is any subas to soome elemelisess without unaccessary restrica man to alter his method of farming in order to feed winter cowe; and I thou the period was really too short to crabbe us to draw any secrets cancingson. ment of pure here and mileh core free from tubercu loss, and talking of accounts. you any information on that point; it would not come

> CAMPAGEA.-Nothing has been done 3508, Mr. Wilson -- Can you give us some reason why it is their the cromments appear not to calcu very why it is that the creamers appear not to largely for the whole milk taste in the cities. You suggest that the maximum prior that the whole milk is weeth at the creamers is about 6d. a gallow, and it would be supposed to the creamers in about 6d. a gallow, and the creamers in about 6d. a gallow, and the creamers in the first of the company of the co is worth in the eranderies is more too. against, and no forms you estimate it is about 21. 25... Why do not the creameries outer for that perfecular trade?—I think some of them do. I know score ored with to Dobin and Belfrat. They could eater more widely for it. The formers want the copesisted milk back for feeding purposes. In some districts you could not get whole milk for supers. In fact, I may say that when I suppressed the experts of mile to England at 85d, per gallon, free on rail, the farmers objected to sending their separated niffs away owns at their price. Of course, that objection is broken down it their price.

> their supplies that they have not now. 2564. In point of fact, in the immediate area around Dublin and Belfart the greatners system has not cot on to any great extent?—No, because the milk supply goes into the towns. 2565. And would not the ceamery system fit into the winter shartage that calets in the towns?--In

that my thus by working indiminally.

3506. Your suggestion is that the future development of the city milk trade should proceed along grouped inem?—Yes, I think you could control it.

geogod Immel—Zee J. Bank you could control in mental better. The Simulation of the Control of the 2007, Nr. O'Cam ruleveys—There are more specul-ated for separation side. The control years for some specul-ated for separation side. The control years for size one—year is 50 miles, one halfpeary per guide, from 11 to 56 miles, three feathnays from 6 to 100 miles, one years. Over 100 miles, are and enceptive of a proxy. That is a former's mir, and between load solution city. It was something like 21, or 20 ft for the control of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the con-trol of the control of the control of the con-trol of the con-trol of the control of the con-trol of the control of the con-trol of the con-t

Mr. A. Pours Wilson,-12th Dreemier, 1911.

2568, I think that on the Great Southern 2569. For the supply of Doblits the rate would be \$4. e gellen on an average?-I quite agree with you-2570. Mr. Wilson,-When the milk comes into the under oxisting conditions, is there sex aediment test or any fermentation test?-There are

which we give instruction. There is the codin sediment test, where you take a past or a quart There is the codinary refills and place it in a sort of inverted bettle, to the botton of which is connected a small tube which botton of which is connected a small tube which bottom to a graduate point. The dirt attle into this tube: the tube can be disconnected, and you can measure the amount of duri in the nells. There are various termominism tests as to whether the milk is small or the disconnected.

2571. Are these tests in general use?—No. They see used by very lew. There is also the neithty test. If there is high neithty you know the neith has not been token care of. This is in more general use. 2073. In point of fact, there is not very much work of that hind being done?—No.

2573. You would like that system developed?—Yes, Of course, you could only have a system like that by educational methods.

2574. In this test a thing that you could standardise?—There has been a rough standardise tion adopted, but it is not made an absolute rule by surrane that I know of.

2578. Would you recommend it in the present state of knowledge?-I do not think there is sufficient known 2576. With regard to toberculosis, we have had a ment deal of evidence on the subsect in connection with the milk trade, and one of the points that has been brought out very strongly to the groot denger from the obviously and eistically tohercular animal. know of-more, except what power the local authori-ties have under the Dainer, Cowhells, and Milk Shape Order. From the creamery point of view, or from the Departmental, I don't know of any powers at all.

2077. Then, in the event of the Commission conild percent varient toberculer mile getting into public supply?—If you pasteurise milk you per-

2078. I mean to absolutely eliminate the telecro-lous one 5—The organization of the occasiony might 2579. That beings me to the point-do you consider that the present system of peatourising really has Well, I have arrays used sed to believe asses as now, but I think it is a question you should sek a medical becomingsts. It is certainly accepted by competent authorities in quite a number of countries that you can

2580, Is the bulk of the milk brought up to tuberele killing temperature?—In pasteurising milk time for a long time, or to a very high temperature for a short time. In both mass, if the work is account menter, but it is not part of my work to follow up that patterdise subject.\*

9581. You have suggested that there are certain duteacts where a shortage of milk occurs, and others in which is does not come. Can you tell us the sardiralize sross that ought to be examined?—Sligo, ioncommon, part of Longford, and part of Luidira. There seems to be something clos at work in three distracts than the drought. In some cases the milk incia than the drought. In some cases the milk supply to the local creameties has decreased for the past few years, and whether that it causing a shortage in the milk supply to the local people I don't know. 2082. That is the area that you suggest we ought to inquise mto?—You, from what I may call the measurery \* See Appendix E., page 363.

point of view. In the Counties of Lestelm, Longford, ert of Roscommon, and Sign, there superm to be a percese due to other crosses than drought

2583. I believe that recently the Irush Approvitoral controlling the powision of butler on voluntary lines. in other, and they are trying to in-Agriculture, as suggested in your evidence, to press-onte people who would dirty milk?—There is a reach-tion of the Cosmill of Agriculture and the recomfrish Commones Managers' Association, passed at a meeting held in Limerick, asking the Department is the consumment to group together in order to reture to receive dirty malk, but that has not been successful so lengtly attended meeting in Limerick to deal with the matter, I suggested the formation of milk-gradier associaleons, and but forward a scheme. They expressed Department to preserve persons sending dirty mfk to

2594. Then I gother that even with these powers, there would be a large range from the minimum that three would be a large range from the minimum that was absolutely amenium; be a very high gazling?—I don't think there is that difference. If milk is obtain you cannot have it alwater. If the milk and the one over eless, and the and his fore from infection, it is quite good enough for consemption. From that you're divise, if don't deliak you can distinguish between closes multi, elastic me and, elessed milk you're consensually, elastic me and, elessed milk you're consensually, elastic me and, elessed milk you're consensually, elastic me and, elessed milk you can distinguish between is on treal, and the price of such milk has to

2585. Miss McNama.—In America they goode the file. There is certified mult and inspected milk and mill. There is oscilled mult and inspected mills and those is a third grade—It is no it is trial over them. In Opporhages they rely on their own inspection, and they have one of the cleanest and best supplies to Europe. It is the same in Hamburg, and also in Stockholm. It is done by limited likelity companies, which undertake to topply dean milk from cover panies, which undertake to topply dean milk from cover ire from discose, and they receive a price not more than we ere pating to-day.

2365. Mr. Witsox.—They have serived at this ideal condition along voluntary lines?—It applies marriey to the milk supply of a few particular companies. People reads to bro from these large companies which are intended with a small profit on a large turnover and

2587. That has been alone voluntary lines?-Yes: 2588. Is there any country that you know of where the correspond lines have had the same results?—I the compulsory more nave and the sales resonance among this point is compulsory power other countries bove at present. It is not a question that I had thought over, and I cannot call to mind what has been done. I think there is scentilling being dans in

America, some State legislation. I would refer to the Reports of the English Local Covernment Board or American methods for control and improvement of the milk souply, new series, No. 1, 1909. Also to Colonial 2350. There are two definite lines of possible action. One is by whintery work and the other by comput-sion?—Yes. If you enforce the present laws properly most of it will be done. That is, if you see that the

places are clear. I am not speaking about the ventila-2390. In regard to the churas and milk vouseks?--

There are seene types of cans that, as I have said, are 2501. Would you counter it a hardship that milk vessels for railway work should be standardized?—Not if you give time to get aid of the old vessels. The can

Mr. A. Pouce Witson,-12th December, 1911

should be designed so that all parts can be reached with the band, and that all partens of the intense should be visible; there should be no crevices, and the can should be dipped in his in order that there may be no crevites for dirk. Dennes on the top of the life see a great noisance, and I don't know what they were

2000. You would have no objection to some system of standardising and legitiming orders potterns of churns, and forbidding others after a spootfed time? one away with, as they are soldered on, and milk gots does away with, as they are someris on, and mine good behind, and they are a possible source of ountainant, tion. I may say that the Instructors is visiting the

2590. They are no use?-No. They are not used for measuring to any great extent. 2006. I think that you remarked oscilor in your or dence that one of the difficulties of sepulving labouring man-the small man in the neighbor

as much se you like if the princips are brought up. 25%. If it were possible in any particular area to organise a demand—some reliminary society or present

2006. It is quite a simple restor to organica

2007. Perhaps the question I am going to ask with regard to milk records absold be addressed to accellen

records and the grading-up of the milk output?-We have twelve Associations occuring milk records at the have twelve Associations meeting milk leaves as a person's moment, with 160 members and 1,425 cown. Two of these have been running for two or these years Two of these have been naming for two or these years others have been remaing oper-incentally from eighteen mouths to a year, as the portion of Scheme 30 retarring to controlling associations was only insuger-rated in 1916. Quite a number of others are about to start. The work of these Amoraldous has been a cerebision to many invasers, because they singer period were better than the big milkers for a sheet period. They are very difficult associations to

2008. Once you get them introduced rate a district room as we can get a number of the records of the difnotes of the owner of the berd as to which be thought Associations of this kind, as it may get them into Associations or term remor, as it may be made and trouble with their customers, owing to differences in toils. But these difficulties would not some where

2009. You have an interesting Table" showing the 2499. You have an unteresting Thild's showing the summer of entity, rather over, and heldren in Inclina in each of the quart from 1900 to 1911, and the cryste of the power of the control of the power of the control of the ways production per head of cores of the correct the sweapy production per head of cores of the cortex of the core in exact to believe the power of the core of the core

Turns showing the total member of Catalo, Mikh Cown, and Hollers in Calf in Iroheni in each of the years 1900 to 1911, inclusive; she the Experts of Catalo from Irohand during the same period.

Yese.	Total No. of Civilia. Onl. 1.	Maleh Coves, moduling Heaters in oalf Col E	Herders. in east, Col. 5.	Milch Grea, etc., percentage whale Col. 4.	Total No. of cettle exported, Col. 5.	Milch Core caparted. Col. 6.	Springer experted. Col. 7.
1900 1901 1908 1908 1904 1905 1906	4,006,860 4,572,363 4,723,861 4,664,112 4,675,718 4,646,315 4,675,924	1,653,674 1,682,683 1,810,787 1,695,177 1,697,667 1,687,966 1,696,286	Not shown separately pelor to 1906,	53:6 91:7 93:6 93:1 93:0 93:0 93:0	746,128 643,067 940,282 828,636 776,297 749,834 776,881	Not shown separately prior to 1906,	Not about separately years to 1948.
1907 1905 1909 1911	6,676,693 4,712,453 6,689,564 4,688,553 4,711,720	1,541,440 1,586,400 1,546,606 1,567,564 1,546,419	08,605 84,839 86,622 98,873	33°5 33°1 33°6 33°6 33°8	848,010 802,634 838,553 559,181 Not	68,736 61,463 65,112 7°1 ovedable.	97,779 26,247 59,904

The figures for columns 1 and 2 for each County and Poor Law Union are available. The figures in existin 3 are included in those in column 2.

The figures in columns 6 and 7 are racheded in those in column 5, Provides to 1000, these figures were collected by the Registers-General for Irrited, and after that by the Department. The figures are obtained by the police. The figures prior to 1900 are published in the Agrarultural Statistics for Redand, 1910 (Cd. 2004).

The number of maids over (rackeding heiters in only), while showing a considerable mercase as con-d with the period 1880-1800, house as low as 1,350,583 in 1884, as still below the figures of the record years 1867-1860. In 1809 the number to given as 1,960,380.

Measwills tools unince of cuttle his increased, but the properties of milch cows is considerably hower than in the cartier years. In 1866 the milch cows were 67 yer cent, of the total cuttle enumerated. The precessing anglands [cd., it] in 170 (3) resched [3] for event. Since See the percentage shows a breckency to ran. It will be truther ordered between the histories in the total number of cuttle between 909 and 1910 is 1957.00, the increase in the number of milch cows on indees in end at 107-316.

Mr. A. Pooks Wilson,-Etth December, 1911.

2000. You preve exténsee as to the possibility of utilizing the separated millim—Yes.
2001. At the present lême the real objections to incoming the use of separated likely—I would not like to say that. Yes can get to from economics whose to say that. Yes can get to from economics whose milli supply it solven represent. We have constructed the control of the contro

when wenn to above supposed.

2602. That would be obtainable even at the present
meconst\*—Yes. I may say that I have seen brandreds
of pillors of separated milk wasted because these was
no collet for it. There you had an article half as
valuable as milk ranning in the sewers.

valuable as suffic running in the sewers.

2003, SE JOHN LEWINGER—That is not going on

now?—It is stopped. We found other outlete irr it.

2004. Mr. CLEFFERD—It don't know whether you

see nows of the experiments exerted on by the Department on the feeding of range on separated suffit.

Spenking from memory, it think it was proved that the

rakes of the separated milk might was at high as 3d.

per gillen for pag freeding.

2006. We take it, that for pag freeding and oalf freeding it is worth at least a penny a gillen?—Yes.

2006. Before separated roll; eachd be delivered in Datin, what would be note be?—do. or 4d. a pin-

9907. Then, of course, the store tends in Licited is a wary reliable one, and it depends on subt-energy—

Yes.

2608. So that there is a considerable demand and
need for separated milk in the country?—Yes, and
that need must be growing, because the export of store
could as increasing.

2600. There are many distincts where you earnot buy separated milk from the centrary?—Let, that is so, in quantities.
2610. As a matter of fact, the furners would not sell it in some onest—"that is no.

2011. Because they know it is a valuable food for their calves?—Yes. 2012. Do you know much about dried milk?—I

here yeer those or fare plottle at work, and I have commend tool twenty breasts of this milk.

2013. What is yeer options of it is a food?—None of it is completely society. If loose its substitute, if the property of the property of the property of the substitute of the property of the property of the third the property of the property of the property of at loans, took as a threeter, and the drevour was not pool in many stook, and men of it was the milk.

good in many cases, and none of it was the suite.

24th, Fron doet, regard an acceptible flux as con24th, Fron doet, regard an acceptible flux as condepth and fluxests, cook a loss of problems and
Applies and fluxests, cook a loss of problems and
the suite of t

2013. See Jour Lawrance—In the treatment of the detect mill would not one companies to destroyed "the 2018. Mr. Cabelland"—To come hark to the question 2018. Mr. Cabelland "To come hark to the question milled the state of the state of the committee fluid sets on the busine industry, and it was stude in evolution before that Committee that the very facts touter on the world in preduced in industrial—Tens. 2017. And that is not pastioned—It have seen it

faces better to the world in pressured in the same again; And that is not peakenmed?—I have seen it made from row, unpartentised toolk.

Taking it as a whole, peakenrised better is repaired.

Taking it as a whole, peakenrised better is repaired.

for the Committee?.-But I did not give evidence before the Committee.

2021. The evidence was that the finest butter than

SSEEL. The cristense was that the imast bother was came from firefacil was summer between problems of the control of the control of the control of the Denish bother was infrace in favour to that sutter. That is see. You've as whole, if you put superferred between one and with the particular of the control between one and with the particular of the control between one and with the particular of the control between one and with the particular of the control their might not be between samples amongset the unparternal between the control of t

2602. That is the point?—They would be fuller favored. 2803. If you pasteurised your milk you would reduce the samples of the finest button?—I don't that you would be the extent that would warrant you in

into recommending postcorrisation.

28th You were very emphatic in your evidence that
you are in favour of all the milk being postcorrise.

Many bother marrheads are of opinion that if you do
no you would monthou some of your finest buttons.—
You might to a small streen, but it would be botter.

so you would anorthou some of your linest outsides. You night to a small oxient, but it would be better on the whole to pasteurite.
. 2860, Talliang of the postourisestion of milk, you could not postourise milk for obcors?—Not at high

2626, Are the requirements of the Dairies and Cousheds Order baying any effect on the supply of mile to oreaments to your knowledge?—Personally, I con-

to organizate to your knowledge?—Personally, I consist say,

267. Have you board any of the foreners complaining?—It was stated in two or three places that the organizate lost suppliers through the enforcements of the Order, and we sent enrollers to cor Instructors, salting them to make inquiries. Out of 100 crossories estanted in the districts where the

continues to the continue of the continue of the continues of the continue of the continue of the continues of the continues

\$500. Do you know whether it is furthly enforced in the seasoney districts—I don't think as. \$502. And that a goat deal requires to be done in that direction before you got your milk supply at the extensive to your militaristics—Decodedly. \$500. A fill has been proposed for introduction to Parillament on the Bother Tobastry, and indirectly the question of milk in dealt with in 18—That is no.

2023, Are the Dayartmont seeking govers to present persons bringing dirty mills to the creaming—the persons bringing dirty mills to the creaming—the persons bringing dirty mills to the person of the

2684. And that until such powers are obtained you will not be us a position to certify that the milk that is proinced in the economy m, in every cose, cook as the pollul health should demands—Let I agree with that. Until you have some powers of that kind you cannot give any guarantee.

2815. Mr. O'BRIEN.—You said at the baginning of

2000, pp. () Ultrans—cross man or use forginning of producing and the control of the control of

reland?—When an inelepator varies a cream has to fill in a report of this kind. (Form handed in.) He has to answer questions shout the confliction of everything. He has get to state whether everything is clean, tidy, and orderly, and that report is written out check that, a man might water down his report for one season or other, but we always find that the Instructors

water full and complete reports as to the condition of 2038. He writes these reports on the spot?-Yes. 2009. Does he give a copy of his report to the manages, possions, or owner of the erconery?—The book is actually kept in the creatory. There are three copies of the report inside) over a sent to the Disparment, one is sent to the president or owner of

manager sees it, the ewant or provident sees it, and

2540. The idea is to familiate the earrying out of the measure-minimum-Yes; and the improvement of

2641. Having got these reports, as there any kind of registration?—When a creamery is ofcom and orderly at a what is colled "approved," and it is placed on the last. I have an "approved," list here. 2642. You have a system in the Department of sur-jecte visits for bother prizes?—Surprise baller impo-Outs those on the appeared list me cutilled to

compete. 2643. Beang on the "oppeoved" list is a very substantial honefs to a creamery?-It should be, 2644. The inducements you offer in this way ought

to take, to some extent, the place of computer powers?-You will always find a number standing out You know it in connection with the Organisation Society, and we know it in connection with the 2645. The CHARMAN.-In the number of approved

sociates increasing?—It is just shout the same.

1846. Some full off and others come on?—Ten. For
instance, if they don't key to improve the milk appely or keep the premises elect and in order, we have drop one or two.

2647. It is a mark of elecutions and order to got on this list?—Yes, 2648. Prof. METTAN,-That is a certificate of ap-

9849. Mr. O'Brazor.-The tonker's m which milk is sunt down to the consumer see the same form of bulkard that is cost on the railways?—In the case of the fifteen to twenty gallon tenknows they would be

2650. On the whole, do you blank the tunkingle used by the crescovers and the factories are rightly shaped?

-No. 9651. In spite of the recommondations and the many 3001. In spine or the recommonantons and me many alluring advertisements?—These is a good deal of room for improvement

2002. Do you know of any tapkant that is rightly-There are several that would most with absolute ap-There are several their would most with measure up-powed. These are several firms that make tankanias that would be suitable. These should be no need to

put dirty rays, averspapers, or bay between the lash and the neek of the con-2003. Would not you opinion be that not ton cent. of the tenders cent on the trains have their fide peoperly accurat—I have examined there as a project

2004. I am constantly investing up a milk line, and I should my that a very large propertion of the tan-louds have the link secured with stemps and with

newspapers and other things?—Yes. 2022. Would you not recommend that all the lide of the supplier to the oreamery, should be firstened with a scalf—It would cost you 17s, 6d, for a scal, and, hersion, I don't think that it is presently. If the lab are fishened down with some of the ordinary methods I can make out. We had no difficulty with his. 2656. I am thinking of the contomination by the

89

readwise. Seems of the operatory serve my new managements, and are driven by Presponsible bypa or gard, and there are no doubt at all that in my part of the country three is a good fact of tampering with milk-a part taken out here sad there, sail water from a diffich adult 7—That may happen, but I don't hink yet товодиле. Some of the occurrery carts go two or three

would over got a bil that a smart lad with inclinations of that kind could not get round. 2657. You don't Gank that it would be practicable to have them sested?—No.

2058. You supply plans for communics?—When we see asked for them. We have them printed, and they

2650. Do you supervise his drawinger-We may sak 2000. In repplying these place, or an oftening place

creasiery tears shall so a passe to me warming tankersh before they fix given back to the people?— That is dent sometimes, just along the elfa, because it could not be done in front of the platform, as there

2061. It tokes longer to misse and scald the communities to commit the community than 1-Ten. 2002. Rinsing could be deno on the plotform?-- li-

9983. If you had the two men who see generally ceiving the male with a scalding pipe at hand, they certing the male with a scaling pipe at band, they weeds eiter that before they returned the tendent is was thoroughly cleaned. In it not the precince in certain measurements that the cent is given back to the beg; it as taken count the creament, and them is a smalling pipe to read the can it is liker.—In some cases that is objec. It is not a question of room on If a manager wishes to have these cars

2006. In most of the constaction, are the cosmic vote open at the top or covered?-All are open. They may pet on a musin cover occasionally. 2055. Is these anything to prevent dut and greens

every from the road, with a separa of trees between the 2000. Most creamenter are made in such a way that there as a procession of earts going around?—Yes.

2667. That road is not always very clean, and there 2000. That rous is no strongs buy one, or a liability that dust may got into the orean?—Of course, unless you sheeletely cover the recent up and keep it from exposure it would be hable to get invisible. keep if from exposure it would be hable to get nevasted duet into it semetamen, but it is quite on only thing to cover the eream with with a piece of mostlin stretched on a leth frame. That is what I did myself. 998. And that is what you recommand 5-Yes.

2000. In the plans do you arrange that these value should be every from the symdows, so that the dust and flice could not full into the vots?—These are the duce-

"That there should be apple room, so that all tanks mechines, &c., may be placed dear of the walls and each other, that the sphenical of milk or milky matter on the walls will be avoided, and that the atomiants one approach the machines on all udes for densing.

"That there should not be any wood to such a posttion, or as a s

" That the floors are smooth and have sufficient full from stands should be used for supporting markanes and tooks, concrete blocks should be arrisfed. That the reserve is well lighted and northeted Dist on this be seen; and the oresmery will dry

quickly.

"That the duams should have sufficient fall and be tropped outside.
That any persons or pince where milk is liable to

be spilled should be concreted, or solitably poved and desired." Provision is made to all the plans for the erection of padeurisans plant, end in the case of full operatories agree is provided for the erection of a chilling anschine and old stee.

2070. The Department gives every countrace to the If these rules are complied with, it would be

5971. Do you relyse on the writer supply?—We see not water drynness. We recommend them to find the writer before they build its creamery and how they should proteen their well been surface contamination. 2072. On the whole, would you say that the necessaries are correlated about their water supply now? inte, Our

instructions on the subject, ' The well should be suck at such part of the grounds It should be sunt to such a depth ann smoud be of such dimenter that the storage capacity, below the water level, shell equal the quantity of water required for the largest day's supply of milk likely to be re-

Whether the linung of the well he of bulck or stone puddled behind with nice inches of clay to a doubt crete carned two feet above the ground level, and prorided with a strong cover with manhole. A wide con-

2073, Sry Jone Descritors.—I see your Instructor operate specially on the water supply?—Yes. That poport is as to whether he finds it protested from surface contamination. It would require a obtained and bacteriological examination to discover in some

whether the water is polluted 2074. Dr. Mossumo.—With regard to your cape. nence of condensing factories, do they use slom milk? I have never been personally employed in a con-dename motory, but I have been in them. It is mostly

9975, Mr. O'BREN,-And it is labelled no nucl-?-Do they add any ingredients?-Cane sugar, unless they were condensing sour milk; then they have 2077. I see that the Department is contemplating a

dirty milk to the creammen?-Yes, 2618. Would you think it advisable to said milkstops?-We are familiar with the manufacturing ade. I don't think it would be demuhle to done the De-

castle, gave evidence here yesterday, and his nearest creating a spont to map as interesting in any way, except as showing this great central belt where there ere no creamories. The creamentes are in the North and

2079. Mr. CAMPUREL.—It is, perhaps, interesting to know that in Cock the hand separator is used?—Tox sing 855 M our expenses into section, it is ques-ficially as to how far they should be recommended. The question has not been theorephy threshed out as to cost. The price received for three prefere are generally low, completed to drammery prices.

### Sir Etcuato Barren

2000. I was asked posteriny whether the Department of Agriculture had done mything towards the propagation of goats in Ireland. I was not then aware ference last evening under the presidency of Her Ex-cellency, and the Department possessed to do every-thing they could in the matter.

### Mr. J. B. DINLOY, M.R.C.V.S., extensed.

2681. The CRADICAN.-You are a qualified veterinary particular attention to the prevention and spread of disease, and for that reaco I would like to say a few words to the Commission. I would like to read what

words to the Commission. I would like the real what New York and the Commission of the Commission of the 1982 Contunty. In its believed his the branch is the main assess of dimensioning with, etc., it would upon about the commission of the Commission of the Typhod is more previous energy the county include realized than the infanty. The commission of the realized that the infanty, The commission of the experimentally 60 agas at a time. I curned any how effort, Tale gain pass of the the water, I seen becomes a maggot, dampears, and continuelly humows in quest of food. In the chrystie or shell stage it is sedden recognized. When the house-dy emerges from the shell the wegs are not apparent; however, the wings shell the wegs are not apparent; and the veige see nos apprenn; nowever, me wings nosn open dest, and it becomes deader in colour and is able to fly in a lew hours. I have used a toe propara-tion ste place for a number of years, and the bysess in the neighbourhood are much electres, not to manparasites. I have no doubt the home-fly conveys syphosic from laterians. A little spitialing occasionally of crede potroleum or invocence beninkus the latina-fly occupiotally. Draid concein is frequently found on one and softened with some liquid disinfectant, and then scraped off. The following disenfectant might be used with advantage, so it is both charp and effective. sysped att. and has man obtained and effective -with advantage, so it is both charp and effective -Huld's pound of odds carb. (washing odds), one concer Huld's pound of odds carb. (washing odds), one concer washing of washing. Where there is Half a powed of odds each, (washing odds), one curse of fresh line, and a gallen of water. Where there is any diagre of indexities, each against of water where he any diagre of infective material drains and forming and forming days, I should alries that the place be aprinted with a solution of commonstall calcium chicetio, which would keep the air pure; it comes very little. No can be also all the same of the contract of the c keep his or her hards perfectly clean. I ones saw a not be backs of his heads. I have on some occasions som the backs of his heads. I have on some occasions som the hands of people militing not show suspicion, although in the post majority of dailyse the hands of the militare were kept cause. washed regularly the operation is sold to be fregulated at milking time. A convenient method of keeping the such as the one previously referred to, in a header; the

Mr. J. R. Drygger,-12th Becomies, 1915

hands to be shpped to the solution, well rubbed to-gether, and washed in clean water. The hands can be getley, and washed in clean water. The name can or more thoroughly and quickly cleaned in this way than nalkers to wore the surgeon's rubber glove. The enters way to necessar whether milk has been cleanly conses way to discrime whother may now been cleanly hundled or not is to let it sit for a short time in a vessel and then domant at. Milkers should be obsert from a cospeciable class, and should be breased. I would suppose that more give be employed in the dury and

respond that many gram or company as the way are more woman to appeared to set under a qualified voterinary inspector. Every discrimon and mass should wear an overall and also be expaired with a poolest handkerchief. Each our should be instructed. which was in everall and one by the protected popular hardwards. Each one should be restroyted to use the hardbarded over the mental when coupling produces the hardbarded over the mental when coupling is subschedular by the tended with a choicine of glycomer or statem and men chimbs. This procedure if earth of the subschedular by the tended with a choicine of glycomer or subschedular between the subschedular than the subschedular tended to the subschedular tended to the subschedular tended to the subschedular tended to the subschedular tender one to happen one. . . . . pulled personals satisfied in short one-hallpoury. We must not harnes the strug-ging durykeeper. Milk is an indepensable article of the for the workingman. The average durymen is se size for the weakingstan. The average surgines is as cleanly as any other close of the consumity. Cer-trivity no person should be allowed to teach milk who show not oarry a handle-redict in the posited, and why not have the fittle refuggeout of a treated handle-rediction which would cost so filled. I give the darricement ones, heads. It is innestable to think of cove in a daily coughing over each other's food. This is a broads daily coughing over each other's root. The each opened of the elementary and fundamental laws of hygiene These could be no more speedy and

deep suggested and their best. The is there is not institute. The second is no more people for institute, the second is no more people for institute process in the second of the transfer process in the second of the transfer process in the second of the broad process and the second of the process are second of the process and the second of the process are the second of the process and the process are processed in the process and the process and the process are processed in the process and the process and the process are processed in the process and the process and the processed in the process and the processed in the processed jees I could have spone noun-eventships and toos. I have condemaed my owner's as aboutly as possible.

2005. You suggest that it is possible that contemination may come to the malk from the food of the covproducing the malk. What perturbule from of food do

even on the gress and directing water canado. S4, I thought you wished to direct our attention to certain foods which are more liable than others to

concerned to person the question from every concern ship point of them.

saved, infectious disease comes, either emerg borses or cows, and the disease spreads rapidly. the Department routh pay particular altention to that matter, and teach the people on the subject. I know it is very difficult. They request exten attention on that parts to preserve the green property. I remarries being consulted with regard to horses in the Transvey being consider was regard to notice in the attacking Company in Belfast; they were doing very bidly, and the measure soled me why it was. I found the place and he did not file to throw out the cets, and it would not be right to sell them, and so they continued to use them. But the hence got words, and at least he gave up the cets. The manager took such a horrer of outs that by refused to buy more afterweeks,

but used butes and Carachin peus and sumething of that kind. The bersen were never in such a confirme reconser, and I thank there means to some new method of saving. I used to heep a number of husting beens, and we eleman got eroun for turning them out very fresh sad in pood condition. I was slowly very particular about the case they see, I field not much should be appearance so much, but if I found the slightest the appearance on much, but if I found the slightest biltermen I slways rejected the cuts. I am doing the 2685. I see that you have views on the question of the application of the Widal test to those who are in cauge of core and courne into country was mine. Les you think it is no investmentable proposition to ask those who come in contact with suffic to subject them-selves to this test.—I think it would be rether carea-

saffest by this sourced miner in would be somer measurable and depressive, sithingh so far as the opening as concerned, it is a very sample see. It has to be vary confully done. Suppose we have thyphed in the originary factor of the propose of the depressive of the propose of the conful in the confusion of the confusion in the confusion i code the Whial test should be ipplied. It think also that the darryman or midd should be appointed or licensed without inquiry into thirm hustory to see if they had had typhold, and where myrous has held typhold the Wrisel test should be applied. Of course, com-paratively for people have had cyphold, but there might be magnitude made, and if there was an experimentally the state of the course of the middle of the course of the course of the course of the state of the course of the cours suspicion I think the want test votes or invesses, Although the operation is a very simple one, people might be a little showned.

2084. The Courseaux.-- I would like at to be understood that it is by no means decided to limit the numentireation from the Commission. Letters have appowed in the newspapers expressing surprise that cortum anteresas were not so for represented in the Inquery. I wish it to be sleady irridovetood (has the occurrence has no desure to sheet out from their pur-view any oridence that one be in any degree height to them in serving at a solations of the questions they have been appeared to inquise min. When are into-

The Commission then educated until the 5th James, 1922.

# NINTH DAY .- FRIDAY, 5ve JANUARY 1912.

The Commissioners met at No 5, Upper Castle Yard, Dahlin,

Present:-P. J. O'NEILI, Esq. (Charman):-Lady Everard; Miss Masgarey McNeill, SIR SYEWART WOODHOUSE, M.D.; ALEC. WILSON, Esq.; DERMOD O'BRIEN. ESQ.: J. R. CAMPBELL, ESQ., B.SC.; Professor A. E. METTAM, B.Sc., M.R.C.V S.

S. W. STRANGE, Esq., Secretary,

2097. The CHARGES.-I am extremely sorry that I am obliged to open the proceedings to-day with a very unpleasant amounteement. I have received a letter from Se John Lensuage reagning his position as a normher of this Commission. He wastes as follows, receiver of this Commission. He unfer date Size Describer, 1911 :-DESC Mr. CHARRAN,

With very great regret I beg to resign my sent on your Commission. I do so with extreme religi-ence, as no one recognises more fully the great value and importance of one were on more you have no gaped, but I find that my professional capagements render it shadouldy impossible for me to continue to serve on the Commission with any degree of efficiency, and therefore I feel compelled to return. With many thanks for your invariable limities the work on which you are exand consideration.

Believe me, Yours furthfully, radeed, a regret which I feel saturfied is chared by my collesques mund this table. It is a very duting Lentaigne's experience and high professional attain ments has severed his connection with it. It is some Commission. See Jose manager managers a very fively and intelligent interest in the work of the Com-mission; and I feel satisfied that it was pressure of named and I feel assumed that it was pressure of professional work which he could not overcome, that compelled has to sever his connection with us. I can

again express my deep regret that he has been Lady Evrnanz.—He was a most valuable colleague

JOHN LEATHAGEN Mr. Francetce P. Fawcerr examined,

2008. The CHARLESIAN.—You are Clork to the Rath mines Urban District Council?—You, since 1888. 2002. You have held that position for a considerable period? For scorly twenty-four years. 3000, And the duties of the position, no doubt, franiferries you with the steps taken by your Council to cursors a pure and cleanly milk cupply for the in-bahitants of your districts—Xax; it is one of my prin.

2001. Would you be good enough to may what stops have been taken by the Rathmines Urban Council with that object?—Well, in 1933, I first wrote a report on that original of the darry yards in the formation, and the conditions of the darry yards in the formation, and get a commutate of three approximate, consisting of Dr. Boowne, who will give evidence how, and two other members of the Council. We went round the thiny members of the Council. We went round the dany yards, and found them in surphing his an envisible state; so much so, that we came to the escalusion that every effect that the law would allow should be that every effect that the law women nature therein made to improve the condition of affairs, but we wore made to improve the condition. We conmade to expresse the constituen of smars, but we were inseed with the question of regularities. We com-menced at the wrong end. We had to register, whether the recenises of the delegants were suitable or not, and the only remedy we had was afterwards to prosecute You have strondy registered the premises,

"You have strondy registered the premisea."
2600. It is strone degree apparently discounted your
complaint segment the bedyedinal—Quite so. We were
preparang so, Orabbias Bill in 1989, and we interdesced
a classe take it giving us per so loccue, on condition
that the premises before beginning develop he certified
by the Medical Officer of Health as being in cerey way
arisable for the competition. by the mostical output to makin so toning as every way solitable for the purpose; and we also sought power to withheld the hornes until the premises were certified. ing at accesses inspeed or registrature. The computative were to have power to exciten the offender in the first instance, endorse the licence on the meand conviction. instance, undows the income on the season conviction, in addition to a time, and to cancel the bonne on a third offence. We are of that opinion still, netwith, similing that in the recent Darirot and Combiels Online made by the Local Government Based Borne is a p were of having a place impected before registration. We are strongly in favour of freenung. We also think that

seems hand let for dairy more ought to be subject to ficence, particularly in regard to the water supply. If have reason to believe that, during the past summed the dedicency of the water supply has great; and we have known of some onesbeen very great; and we have known or some owen where cattle have been allowed to depend on supplies little better than sowers. If they have no other supply with which to wonk the olders and the suffices' hands, this must be a great source of danger to the public.

2600. Would you be good enough to tall the Com-Council for the purpose of convent out the provisions the Dairies and Cowsheds Order?—We have got of her Darfies and Lorenzeer Court of the Barbary three male featuring inspections, who have got a saidy impecter, who gives her time mare to still shops and looking after the eleminose of milk vessels. We are side to my that there has been a wast improvement in our township. We will not say that everything is model and up-toand who are way that overlyming is model and up-to-date, because that would mean incurring as mormous amount of expense. Our Veterinary Inspector, Mr. Lambert, will tell you that the conflicts of things in Esthesines is as good, if not better, thus in other places in Heland. The electrons of the care is a perticular object we have in view. Our man go in at different hours to see if the attendants' hands and the curround

ings are satisfactory. 2604. Have many presecutions been instituted in your distinct for breaches of the provinces had down under this Order's...We have them constantly. We do not consider that the fines are sufficient. I think Miss Hayes, our lody inspector, will give you an instance where, after five convictions for adulteration, a fine of only \$10 was imposed. We conside tion of such convictions is essential.

2025, That does not always follow?—No. I do not blame the papers for it, but very frequently most important cases have not been reported.

portions cames nave not near reporties.

2900, Woold you believe that the most dressiss
purishments to people who interrupt this Order would
be the publishing of their purishment—Yes: I are
strongly of that opinion. They dress not near the publishing more
than any fines. We have high opinion from the first than any fines. We have high the publishing more defined up to

£100 for odulieration; and the Bessen fined up to Alto for adulteration; and the necorate, who gives be every assistance, confirmed that five; but I do not

Mr. PREDBRICK P. PAWGERY, -- 5th James v. 1912.

think that a fine of £100 w held as much a determine to the defendant as the publication of the conviction would be. We used to read out these convictions at our Council meetings, but for some reason the Press 438 not publish them. 2907, Courtelloon are through read out at your Coun-

2007. Occaviolous are always read out at your Council meetings?—Yes.
2008. Bot titoy do not always find their way into the Press?—No.
2009. You do not profine to know the reason?—No. last there was a case denoted in England where a Ref.

but there was a case decreied in England where a Radiway Company got a conviction, and it was held that the publication was an additional penalty to what the Court infloid. My quinted is that the Court should order the publication at the empense of the defendant, it. France, the defendants are made to put up a collecof their convictions in their windows. 70th, You better that would suffered the Press

Tob. You believe that would safegued the Press from any consequences that might arise from the publisation of those particular coince?—Most certainty. 2001. As to the condition in which the cover are loop, and the eleminates of the attendants, have prosecrations been matriated on assessed of layers in this resection.

2006. And what penalty has been entoned?—Prom 5/1 to 21. 2000. Do you believe that is insufficient?—Wholly insufficient. And owns for the eleminisms of the hard sensels, in two or three prosecutions flora of 5/1have been improned, and we have to pay 10/6 to our solicities for appearing. 2006. Of course the Gouncil have no design to be in-

demanded for their own superans, but they do than they could be nest with co-quintion in the stipet that they could be nest with co-quintion in the stipet that the guidance and control of the truth-C-cristity, 270%. Are the cross impacted by your veteranty aspecter ever examined for the presence of interestciation. The control of the control of the very tenue of the point of inspection. We do not take the law in the request in all selectorary, the stable law in the request in all selectorary, for \$40, there is a veterious impossible or the pro-\$40, there is a veterious impossible or with reference to \$40, there is a veterious impossible serve. The not

pione-procuration, such, and swine force. The next important is fill out—the important with reference to supervision and the contract of the such as the should be an important by a comparation imposed to should be an important by a comparation imposed and the such as the such as the such as the such as the throughout Iseland, that every one such as the such the local, and that every days begar should give the the local, and that every days begar should give the the local, and that every days begar should give the such as the suc

supposition. We also with the property of the size of the property of the prop

soled that they had, no percer as the matter, seel that the question of sleepiter would not apply to say beast, except the oblive was affected. We can beelly believe shall fe the aminout itself is tuberouples that the milk will not be tuberouleus. As tuberouples that the milk will not be tuberouleus. The properties of the milk of the 250%. In this particular instance to which you refer, was the milk odd to the public from this bend?—Scone of it was.

STOR. Your Council, in order to give proof of the faith that was in them, would have been quite proposed to from the expense consequence of manying that beel stimuthment, if they had govern to do self—They would. 2010. That shows octually, I think, the desire they had to earry out to the failest extent expenses.

terred on them for the purpose of antiquarding the public—My Council has slavey have most tention. They would not step at any expense to try and parpose, such supply. Everyding, that the low above, a pare suffice supply. Everyding, that the low above, makes have very loyally stood by us when their selectness above to the regulation, and the posttone was above to the regulation, and the postduced contact our own district. We had a cereadition outside our own district. We had a cereation when the council of the council of the council of the low of the council of the council of the council of the council of the low of the council of t

words how only was mind not middly, as min.

TIO. He forced this the mild of the particular kinds
was not apprecised in Rethrance?—Ten.

TII. by you must on your Improves observing
the mill from the core are cleanly, and whether preturns as much for the washing of their lands, and the
looping of the vessels in a clearly commissor.—We
expected the control of the core of the control of the
copyright of the vessels of the control of the core

prophistors, and we just to make the core

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covered.

2723. Tour ledy inspector, you take us, develoed her more and energy to the inspection of the slope whereis not not energy to the inspection of the slope whereis year.

2723. Here you have any allessly in industing the slopelyongers to conform with the regulation laid down! when the slope wherein the slope of the slope

the rootice will not expose the natic of all. They will have it in a some open. Our half mappeds has about hard in a some open. The property of the concase on with talkin in it, and when the writt into the day differenced side was teld they had no milt. To a some open of the considered for the purpose of the contraction of the considered for the purpose of impediate should be considered for the purpose of the considered for the purpose of the pu

other of the construction of the construction

of the schmidt residence, we have find its mean of the schmidten of the sc

100 SITE I would be very certains to incore what and feedings would be, bowing in a masses whereby the intentions could be bowing and advanced to the contract of the contract of the contract of the contract of the defeated—I are a divided or address of would be defeated to the contract of th

as don't. To conscision with the artunals to great the control of the control of

we register say purreyor we have a form that we need out to the District Council, saying that so sed to has

applied to us and saking them for a report.

94

Mr. FREEZINGER P. FAWGETT, Sich JOHNSON, 1912.

7214. Do you find that the South Dultan and Backdown District Councils have been of anishence to you' capeto. Of sozene, we know routing of their system of ampestion in their own districts. 7225. You to to the effects document you receive the committee of the council of the council of the committee of the council of the council of the committee of the council of the council of the grit has randomly offer of back to visit the similar of grit has randomly offer of back to visit the similar of

occurrenteeds with the outlying districts, asking them to get the medical effort of health to visit the families of the stock courses, and they do so, 2730. Mr. O'Esame.—That is in the Co. Dublin?— Yes. 2734. Do you get milk coming by train?—Yes.

<sup>187</sup>28. Do you get mill coming by baint—Lee. 2723. And foot have no control ever it is a hill—No. There is very listle suit delivered by froin is our town. The many properties of the control of the

loshed offer?—Ter.

2728. Your experience in that respect is most happy?

—We have no cassa.

2729. How fix do you think your effects to scorer a pure and clearly supply of milk for the inhabitants of your directed are restricted by want of additional powers? You have already supported that you think becausing yould be of exercises while?—Of exceeding

accounting would be of execution waster—for execution, 2700. What is other tangestion do you make by addition to this execut insent, for the extension and another appareties of propoure is a very excitous containing appareties of propoure is a very excitous containing appareties of propoure is a very excitous containing a propour in the containing and the immension and the containing and th

dithelets where the version may hap the milk. Assording to the Order, milk man no be lorge in a Mitchen or living room, but we can only saker the shape. 2783. Though the thop may in riself be cleen, the milk that is said from the sloop may be steered in unleashing confinition?—Tris. I should say that ony located prumines should be open for imposetten.

2738. The store, as well as the shop?—Yes,
2738, its powr Ceanell in favour of having the administration of the Distinct and Covaheds Order entrusted to some Central Authority?—Yes,
2738. Do you think it could be more afficiantly auried out if the coulded we vessed in some authority

27th. Do you think it sould be more efficiently and off till be control now reside in some numberity criticle local influence—Tax. We possed a resolution to the control now resident and sense to the difficult of the control number of the cont

by means of infected units, the Dudgist Council of Reinfundam and Rathgar would extractly muse on the Outermont the necessary of plasming the season of eith numericant entitled of fold units a season of eith numericant entitled of fold units of the season of the numericant product of the design of folders, pertinelarly in country infection, where there is prantisely no experience. Their experience are produced to the Chief Secontary, the Local Government Reced. and all the Urban Obstech Councils.

The National Councils.

Date was in 1007, before the reseast Gener over made, we cannot shall our eyes to the fine dies its moure disteiled they have refined to appeals Inspectors. 8700. The policy you wish to make is thet, that an 8700. The policy you wish to make is thet, that an armount of the contract of the sharps of the day, is enforcing the provisions of the sharps and Germako (700e, in mile is not in the large and Germako (700e, in mile is not in all its conlectly enforced, you are the same of miledeliminates from in other districts—Tax.

100 in other dashtes)—Yes.

207. And in order to drivele their, yes would only
good that all the Local Authorities copied to be congood that all the Local Authorities copied to be concontrol action of the control action of their
colline. The Impactors of the Department of Agricolliner this acoustic of local, or gift as our impreculture this acoustic of local, or gift as our impreculture this acoustic of local, or gift as our impreculture this acoustic of local or gift as our impreculture that acoustic of local or gift as our impre
2120. And the write would be successful or gift of the

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2120. And the write would be successful or

2120. And the

5009. Bit Stravar Wesomers.—Here, you say substitutive, space from the goodward of the adiplocating Runal Authorlifes, to ecountie the sources of supply coulds, your own distant—No. We have an office of the substitution of the

2901. Mo. WILSON.—TICES SMI regard to time same opinit, you have no power and you saw Intradia by the pint, you have no power and you saw Intradia by the larve that good-will, and that you cen inspect outside you con instand—We have never lead. We spirely not you con the pint of the pint of the pint of the young of the pint of t

2743. Have you any system of becterfelegical examination for teleperators in the milit—Yes, we examestingles to the bestearologist. 2744. And what is the percentage of amples showing tuberculosist—Reining Dr. Erewine may be oble to give you take information.

ing tuberculosis\*--Perlupe Dr. Bourne may be able to gave you this information.

2745. I may also sak him about the number of ampected cases of tuberculoses accompst calcle?—Yes, or Mr. Lambert.

Mr. Lemmers.

2017. And you do marky grave heart "Ves.

2017. And you do marky grave head in 1879-None at all,

2018. You come would have your control for the swentches in summer which they are in greats-Ves.

2019. We have been a summer of the second of

yands in the district has been very seriously reduced by itselfy car-half. 2753. In number 2—Yes. 2782. And in count—Yes.

2782. And in countributioned by more milk coming from the country!—Tex.

2754. Have you may resson to suppose that the Rurel Authorities to your neighbourhood sully do look ofter your cores when they go cut from you?—I believe they do. I cannot say definitely, one way or

2775. Would your opinion agree, with that of Si-Chasles Cameron, that she city milk supply is bester than that which comes from the contrily—Tex. \$709. I am told that in certain other phone they have a type-daw deeling with dairy shops, which would be a very notful one own here. Under that regulation

to a very setful one over here. Under that regulation so composition at all is allowed between the damy shop and the shvelling horses; the dairy shop is a water-dight compartment?—I would be very strongly in favour of that.

2507. Obviously it could not be applied to every sively sky one?—No.

oney has necessary to be appeared to every control to the control of the control

2000. Why is that, coming that your relations in the null produced in class in rel a letter quality than the null produced in class in rel a letter quality than the null produced in the null produce

in April they run o very sentees true to constituent tuberculosis or other discusse.

2161. Then it has been suggested that in the system

of inspection them should be a county veterinary inspector in charge of the local inspector appointed by

Mr. PERSONACE P. PAWORTE .-- Mb James v. 1942.

the Burni District Council, and so forth?-I am afraid that would be a multiplication of officials. My con-tention is that the improtors should be appointed independently of these bodies, and of local influence in I do not suggest that you want more

samerior respection. deferent system from that which recommends a county ofbor?-Lee: I would not advocate that, 2703. Prof. Marrior.—You say to your pricts of evidence, "As possent I andressend there is a voteri-

nory inspection with reference to pleuro-parameters. torb and swine fever; why not extend the maporison to bulercolous?" I recount from that, that you would recommend that telegralous should be subs-

2784 And therefore, as regards the opplication of the tubercular test, it is your Council's wast that re-actors should be got rid of; would you grafer that an sound that starts to the tobercolle test, whether st 2755. As regards the exposure of milk or food in a shop, would you prefer that may place that as heemed should be subject to total imports as ?- Costainly, 2766, And if it were expend, not in the sweet of

being exhibited, it should be examined, as well as any lood that might be badden from view h... Yes. 2707. The food that was hidden from view might be exposed for sale, but not exhibited?-Yes, 2708. You have no means of examining the con-

\$700. Do you know if samples of this milk are taken at all by any of your officers?—They take them in the way as the milk is being delivered from

2770. The inspection is not made at the station?— We have only one station in the district, Milliown, and there is very little nells coming in these. 2772 And have you reman to suspect that the milk

is stationated when you take samples?-Whother we suspect at or not, we take samples. 2773. And you send those for besteriological avanti-nation?—Some of them, as the Modical Officer thinks

2774. Mr. O'Bents,...You were saying that you in-spected every cow stor a month; how many happen-ture have you?...We have only one retonassy inspec-

3775. And bow many cows are there, roughly, in your district?—About 520 or 530 in our Urhan dis-2776. And are they irrepected by our man !- Yes,

2777. Can be menage to import that number 5--- Ob. 2778. I see in your priors that you recommend there should be no dairy yards in urban districts?-Yor. 2779. Would not that satks it very much more

difficult to impost the dairy yards? You have only one impostor at present, and even if you had two inone importor it process, and even if you had two in-spectors, if they had to go contain it would be much hance difficult to keep the yards inspected. In your bless that dairy yeeds and dairy hards thought be keep contain the town, but you on the limits of it, so that the azimals would get from an early pattern, and at the some time to artificiently once the city, so as not the some time to artificiently once the city, so as not to cold our press expense to the carriage of the colli-?

2780. Unless you had them controlled in some per-ioular district it would make them much more diffi-cult to inspect?—The difficulty ought not to be taken 2781. Mr. Wr.sow .- You would like to have no

to go and look after those cutteds farms, from which your malt supply comen?—Xu. 2762, Mr. O'Barre. -- At the pretent time you have no moh power?-No. 2580, Miss MoNERA,...With report to the Preach requirement of having notions of outviction exposed It the window of the vendor, one watness stated that he did not think that such an arrangement would be tolerated in this country?—Of course, it is very tolerated in mass country?—Of course, is is very drastic; I know it is done in France, but I don't know if it is done in any other country 2784. With regard to some other meens of doing the same thing, and having regard to your approval of lineasing suffic worders, would you have conventions endorsed upon the horness?—Yes, and I would have

1785. Regardless of the gravity of the offence?-

\$780. I think you studed in your people of evidence that you recommended that notification should be Authorities on new cows being 2787. Do you think that possible?-Yes.

2788. With regard to the exatted of the supply from outside districts, your idea is that grazing first should be licensed?—Yes; the man point would be the water

789. Here you is your investigations any means of finding set how the vessels are claimed when the cows are out in great—No; except at some in our own distort. When the milk corner is we enamice the cans in which it is brought.

2790. Would you suggest that when the cows are out on gress there should also be forthilds for having the vessely scorned?—Certamly. 2791. Here you may means of knowing whether 2001. Have you any means to answering because theiry workers are living in contact with, any, a case of infectious discount?—Of ourse, there is a very heavy

2706. Has that case arises?—Yes. When a neith-cation of disease somes so, we find where the milk is supplied from, and if it is estudie our own district, we communicate with the Officer of Health in the district, and he must operiocally goes and inspects

2793. A case came to my knowledge where a child had measles, and also mother case later, which were not notified, and in both of those cases the father bad has fourthed, som in come or takes cases the restor and an occupation which would lead to the easy transmis-ation of the disease to other people?—The patients should have been removed to buspated and the place

STOA. Another point that is amountled is with regard to typhoid carriers. Do you think that satisfactory steps ought to be taken to secure that the dairy workers are not typhoid sarners -- Certainly 2795. Woold you advocate that dairy workers who are suffering from an inflammatory some throat abould be kept away from contact with the milk?—Yes; in

276t, Do you make any suggestion as to how to avoid overlaying with the Department of Agricul-ture with regard to the inspection of milk?—Only the one main pount, and that is that there should be the

2797. The Crammay.—What properties of the milk-sold in your district is raised in it?—I could scarcely 2700. A considerable quantity is brought in?-You We have about one hundred and ten or one hundred 2799. Who have no decrees in the district?-Yes. 2800. That would exceed the comber who have got dairy yards?-Yes. We have only got about townty-

sex yards. 2801, Prof. METTAM.-What is the population of

1802. The Chammer,—You suggested in your pricis of evidence that betwee being bought, mimals should be impected and a certificate given?—Yes. 2003. How for do you suggest that imsperior should go. Would it include the application of the tobercolm test?—I would go as far as that.

280s. And if the salms! re-coted to the test, you 2804 And it me named re-ected to me test, you believe that the local authority should have the power to freight that around being used as a supplier of male in your district?—Certainty.

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Mr. PRESSURE P. FAWGERY, -5th Jouanny, 1912.

2905. Mr. Wilson, Regardless of expusse?—Yes. 2906. As far as I have been able to estimate, would opposite that as I have been able to estimate, it would opposite that double the cost of milk?—I don't 2907. The CRAIMAN,—The question of cost in Mr. Faucott's district would not deter to the same way

as in other districts. You could affect to adopt me drastic and extensive methods in Estimates, Mr. Fawcett, then might be possible to districts less favourably circumstanced, where there is a pow of ment?-We have a poor element in one district.

# Dy. Rogger Boowice examined.

2808. The CHARMAN,....You are medical officer of health in the Bathmines and Bathgar Urban Districts? 2009. How long have you held that position?— Twelve or fourteen years—from 1998, I think it was. with the way solverthe to the constally received theory that in order to safeguard the health of the in

strongly of that opinion. 2012. And wen also believe that if these conditions are not observed, that milk might possibly become a accurac of serious infection to the inhabitants of the district?—I do.

2022. We have had from the Town Clerk a heatery of the means adopted for the purpose of ensuring the purity of the milk supply to your district. tall us whether samples of milk bare been supplied for 2818. Can you tell us what proportion have been certified as being infacted with tobercia?—I don't Gink we have held a single case. The results have been

2816. With regard to tuberculous?-Yes. The re-Certainly, there was no sulte have been negative. Certainly, there we scartly sum of the toberele beellii in any case. 2615, Prof. Marray,-Do you know what kind of communica was made!-They developed colleges-

2816. You do not know if the milk was moculated into the snimsls?-No. 2817. The Chamman,-Are you in favour of pasteurpays. The Challeds,—Ir you is involved a present-ising or steriffusing milk for the purpose of amening its cleanliness?—If it could not be helped, it is right to do so, but my liden is that if you get pure malk in its natural whate won not it in its most motifive form. Postcurising and etermining do not improve the milk. I am postere of that. I thenk that is the generally re-

cerved opinion. 2818. And you would be in favour of ensating the clessifiers of the milk supply by other means than by sterilising or pasteurseins?—That is my alex. 2829. Have you any knowledge as to whether or not milk is used in your district for children as largely as you believe it should be?—I think it is, as far as I have I with they take a let of milk. I have no

I think they take a lot of milk. 2003). Too have no appointment under the Medical Charleles Act?—No. I have not much experience now as to the conditions under which the children of the poor are brought up. This would come under the notice of the Directary Officer, but he has made no complaint to me

2821. Do you entertain the view that it would be desirable that the dairy stock should be inspected when they are on grass, as well as when they are confined in the owners' yards?—Yes, that is a most important tout. When the stock leave our distinct in summer dailymen was their sames in the nearest mean water there is the least deep of water, and naturally that cought to contaminate the milk supply. We have no power to examine the cows on grass. 

2800. To coulde them to investment the conditions should be immented in the summer as well as in the 2826. Do you think that impure water given to the cown is a source of deager?—That is a debatable point. There are a good many people who think that cown should be a pure water supply for the cows for drinking and for cleaning the vessels. If the cows drunk an washed in the same wolcr. Do you believe that cown found to be affected with inherestone of the order should be elementered and compensation paid to the owner by the local authorities?-Yes. 2600. And woo don't believe that the public have any

when undertaken for their pertection !- I don't think 2007. We have been informed that a considerable possitly of the milk consumed in your district comes

2028. And have no reports been made to you will regard to the condition in which the milk is supplied? —We get reports sometimes from our own officers. 2823. And have they reason to complain?...We have not discovered very much ressen.

2830, That, I take it, is with a view to discovere adolests from Yes. 2821. I am speaking now more on the question of desaliness and the condition of the vessels in which the milk is conveyed?—We know that in many cases the vessels are not as clean as they ought to be.

2822. The Town Clerk has conveyed to the Commi sion that in his opinion it would be desirable to extend the powers outformed on local authorities to emble them to impost the stores or other transings in winous too milk is kept pervious to its being said. Are you of opinion that that should be done?—Yes, I am, de-odedly. In foot, I may say that I have had so oppo-tionity of reeding over and onswilling with Mi. Fay-ical about his evidence, and I agree with everything.

2828. Do you think it would be conductive to the general health of the cow, and consequently to the conditions under which the milk is produced, if the cows were allowed to go out on pasture for a certain time every day?—I believe so; and it would give an opportunity of cleaning their stalls properly, which it is

2834. That would rather restrict the number who keep dainles within your district?-It would. 2835. You would not ecosider that a matter for re-grats—I would like to see all the dairy yards alsogether outside the dilettes. I think they should be kept in the country. There are some phose in which the dairy yards are so surrounded by buildings that there cannot be proper weathful to. no matter have carnot be proper ventilation, no matter bow closely they may keep to the bye-laws.

2506. It has been conveyed to the Commowron that the milk produced in cities and orben districts in supersor to that brought in from the country. Have you instituted any comparisons for the purpose of embing you to form any quasien on that subject?—The milk it our district is better than what comes in, as a general rule. The reseas for that, I think, would be that we can better inspect the premines-3877. Have you been able to trace infection to the mall smarty 5-No.

2828. Would you be in favour of asspending a supply of nills from a sporce that is suspended?—I would, of

2800. That power does not exist at the present 2840. And you think it would be a safeguard to the poble belds if such a power were conferred on local authorities?—I do. 3841. Do you believe that it would also facilitate the administration of local authorities, and proder them

may take what they like, but my operion is that there d image digitised by the University of Southampton Library Digitisation Unit

pane efficient, if the power to forme was also onefered on them. T-Xs, that is my options. You coust regime every dairy. We have no control. He there was a forming system there used to a certain amount of scatted and the herocon could be withfulness. 2842. And you would insule that outside he made in sequent of fight, set and ventilation should be made with ringuit of toloring all coops before a horses would

2042. And you would inside that certain provisions in sepace of highs, for and worldistion should be made with segard to foreign all coses before a horses would be made. Decidedly,
2043. Lady Evraum.—What is your opinion of seganated milk?—It is very poor. The only appreciate of the control of the colliders.

have is that it might be its for feeding pigs, but it is not fit in children. 3944. In it your opinion that sterilising mile destroys some of its valuable properties?—Yes, but it is better

occes of its valuable properties?—Yes, but it as better to get it settlined than impure.

2845. Hare you any expenses of this new powder mits?—No. I foun't thin it takes the piece of fresh mits, tart it is very useful when travelling.

2846. One of the retreases consecuted it would be

and the second s

Sees. Was it a case of subsections of the udder!— There was no tubecooks of the affair in this case. 1840. If a cost mat observation of the udder, larry you proor to instable that one and persent at letting your proor to instable that one and persent at letting during the cost of the cost of the cost of the cost during the cost of induction disease is reported, we sent a multing the office to make on grantee. We have

aftering very sanishes in our entropy. In comsuming the obline to make our guides, we have punted forms that we seed to the Biernet Councils and per seed to the control of the biernet Councils and the make in single-state by any secretaring that the make in suppliers by any secretaring the seed of the seed of the council of the council of the seed of the council of the council of the council of the council of the birthing or completes on and dairy the remarkers of the birthing or employees of and dairy 2800. The Catamax—Will you place substitute of Datest's Changle 5 or Coming Control. Tomasses and Datest's Changle 5 or Coming Control. Tomasses and Datest's Changle 5 or Stranger Westerstein in a share with the byte of the Changle 5 or Stranger Westerstein in the Stranger Westerstein in the Stranger Strange

sec, so you think that the people of Bathmins sheall yes for this, or should be logal for you for Sected.—They ye for this, or should be logal for you for Sected.—The I am shrind I coursel give you a definite opinion on that posts, but I would also to see the own linds.—284. Would wen like to go cutaite year own disises. When they were the property of the people of the work of the mails neight be been diversed.—The time which people will be the diversed.—The time which people will be the diversed.—The people will be the people of \$80.0. Min Mechan.—You replan of the collaries and polecularing unjoing the milk—Lee.

3807. What sugges do you shank it does?—I think in proceedings a great sheld of cause of the state of the second as the second observation?—No, but I don't think there is seen to see the same account of nonunbineers in the pasteronaed as at the new milk.

3800. Would you be durprised to know that Dr. 3800. Would you be durprised to know that Dr.

2006. Wome you se surprised to how want Dr. Robechel, of Desedes, as a result of elector years' experiments, found to difference in the substitute of talkform for one war mile not show for dox parametrists with L-I are not source of this. 2001. Peol. Mercust.—You would aim at getting a mile supply that their out require to be parametrised or sterning of a 420.—I'm.

milk mptly that did not require to be parkentsed or semilious at all—Text.

2004. And it is generally recognized in the medical produces the parkentsing and stemiling after the requiring of the milk to seen extently—Text 2004. See the contract of the contract of the extension of the contract of the contract of the author of direct contract. The color of the contract of the contract of the contract of the parkensed milk, as against the other the contracting is truncate—I does this kill in a thory asserring is truncate—I does this kill in a thory as-

Mr. B. H. LAMBURT, M.R.C.V.S., examined.

2884. The CRAINMAN,—You have recently been apprinted Vesterancy Inspector in the Rotherines Dathermal Vesterancy Inspector in the Rotherines Dathermik. Of course, it is very difficult to watch them

2935. Fellowing the largested death of your fathers—Yes.
1990. And previous to staking up the dense of Yoster,
1990. And previous to staking up the dense of Yoster,
way. Importer yourcell, you had the subvastage of orvising your father for a considerable number—I had,
1997. Do you find, specking generally, that core,
1997. Do you find, specking generally, that core
1997. Do you find, specking possess, the considerable with the local ambienty in concepts
to specially the distinct is keyle done and bending be.
1998. Supply the distinct is keyle done and bending be.

2008 Do you make a regular importion of the cows in the distribution of the properties of the cows 2000. In that imposition to see if they are kept in sunitary condition, or do you make an enumeration for the propose of scentiming what sold of beath they see in 7-1 commo their release every much, and make our committee to their every much, and make our committee to see whether they

300. Here you toust any named soffering from theoretisans of the sider?—No. I found a lot of unperted cases, and got the sift's analysed, but I have not been also to confirm my suppressur. 2071. It the suspected sumul allowed to remain in the hold soil.

3971. It the superted suimal allowed to remain in the head until it is determined whether it is suffering four theoreticals or not?—It is not said. 3972. What becomes of the milk 2—It is not sold. 3973. Do you think that that is leyally carried out on the part of the dissipatogens in your distillet?—I do not their is, o. As for as the Hisporious care do so,

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Disthe mile. Of course, it is very difficult to watch them
always,
ather?
2006. It is practically impossible to do that. At all
counts, you impage on them the condition of with

The processory appearance to O unto Az and a contract of the processory appearance to O unto Az and a contract of the processor of the proceso

solt their alliance with that as it was not a man of tablecitosis of the noifer, they could not interface, and the same were left free.

You find many other mandelse and diseases bould by you find many other mandelse and diseases bould by you find many other mandelse and diseases.

There are manifolds, theorems, but it is now many on trainald three differentings, but it is now many one to find our of these objectionably cases.

also put sittle until the milk is totald. Where the come were affected the owner were taid to get nd of them, and they always dist get nd of them.

2808. That was a case of distributing the minchest into some other distribution. Yes.

2600, and may make one get and of them.
2600, that was a case of distributing the meshed into some other distribution and one other distribution.
2600, In you think that is an economically acoust cheery to follow?—Not but we have no option.
2600, I am not finding built with your administration: It weeks to know your opinion on the matter.
2600, I am it would be in the internal of the Guitral

98

kir. H. H. LAMBER,—5th January, 1912. 2881. And do you think that snimple affected in the

way you describe ought to be put into some sort of baggini for treatment and kept there with they are certified as sound and healthy?—You. 2002. At all events, you believe that they should not be sent to disseminate disease in other districts when

they have been turned out of your own?-No. 2880. Have you had an opportunity of watching the an the cure of the cours as to their cleanliness?—Yes-

2884. You have very satisfactory results from the

2885. And have the owners of daines here different

2886. I take it that you have not much to do with the stilk shops or the place where the milk is sold?-No; Miss Hayes respects those.

1887, And I see you suggest that where there are

2550. And you suggest that souncils that re-act under 3889. You think that they are a possible source of

2800. Would you condenn all animals that re-act to the toherculm but !-- I would. 2891. You think it is unish to use milk from any

animal that would re-set?—I do not think that it is un-side to use the milk, but they may infect the other 2892. That would be a most drastic and most ex-

pararva remedy to anforce—to singulater all the suimals that re-soled to the test?—If would, Tham would be very few that would re-act. That is my ar-2806. Have you ever subjected a whole hard to the deberruin less and assertance what number would

scherulin fees and acceptance which number worse re-act?—There were only five in the herd I armonized; if was a private geniforman's herd. One of them re-sorted, it was a perfectly healthy-looking animal too; it had to be siregittered, and it had tabercolosis in the

2894. Not tuberculosis of the odder, but tuberculous 1805. We had enother instance brought under our observation in which a fairly large herd was subjected concrement in which a Birry large need was subjected to the test, and almost fifty per cent re-acted, although it was reparted as an extremely haddler hard. You

have never had an unfortunate experience of that kind? 2895. Are you of opinion that sowkeepers should be licensed rather than registered?-Yes.

2897. What other suggestions have you to make that would increase the efficiency of local respection, and more the production of mit under better conditions than those that engl?—I do not know of anything except licensing, and to see that they get a people class of men as events.

2998. You are dealing now with the owner in the first instance?—Yes, 2899. And you think that men of good character and

stending should be the men on whom the lacence should be conferred?—Yes, 2900. You would not confor licenses undiscriminately?

2001. You would like to exercise some discretion as to the present character of the person that would be

2002. You think that notwithriending his assertions that he would carry out the regulations had down, in difficulty in getting them to do so?-Yes.

2003. Do you should it describls that powers should be given to mapout the house and surroundings of people connected with the nulk leads?-I do. 2004. I take it you beliave that if these people were

in contact with infections disease that they should be suspended from their work?—Yes, for some time.

2005. Do you think that the water supply for snimals in summer time, when they are on grain, is a matter of importance?—I should think it a matter of great 2006. Do you skink it desirable that local authorities

ing as to whether or not the water supply was adequate and pere?—4 oc. 2007. Lady Evenano.—Suppose you find in your dis-trict as assensi with a toberculous odder, what do you do to prevent that arimal spreading the discuss?-I

would serve notice to have it isolated, and report it to 2008. Not to your District Council?-I would report

2900. Who would give the order to have the atumal shughtered?—The Local Government Board.

2010. How long after your report to them would that order be grean?—It might be a week.

2911. We have it in evidence that when you we go back again "?—I have no trouble of that kind.
If they get compensation they could not heritate.

2912. Do you think that the legal compensation allowed is sufficient?--You. 2013. For a good oow?--If you take an average. A oow that would be emerated would not be worth more

2914. Is it year opinion that if the limit of compe

2915. The Charmens. Supposing the owner of a one had bought it a week or two before in the market and paid \$20 for it, and bought the mirral in the ballet that it was perfectly sound and healthy, but was so unvery hard look on the owner of the cover a the material.

2008. World you not think that it would include this person of the Dames and Covehads Order if a

2917. I put that question to Mr. Watson, Veterinary

himself not been responsible for, or guilty of, a criminal or negligent act?—You. 2018. Lody Evenano,-The cows are out in summer

2019. Do you think it desirable that you should have the power to fellow them?—Yes. I think it is deepthat they should be inspected in the number as

2020. As a matter of fact, do you know whether that

2921. Do you submit that the bull that does not peas the test might transmit tuberculosis, and that what would be a domer?-Yes, 2923, Mr. Wilson -- Do

how many cows there are in your area?—There were \$25 last month, 2225. Among those, you know of no suspicious casa of tuberculous at the present memerat?-No.

2524. There were no recognizably tubercalous ones in your distinct—No. If in very much better than it was twelve months or two years ago. There used to be a terminations number of cown in the district with fibrous thickenings.

2925. You have no reason to suppose that the people in your district hade their cown away from impression in collying sinds?—No, I do not think it would be prailts for the owners to hide them

2026. I went to go a little further into this case quoted by Mr. Fascoti. He states in his aumnosay of reidence that "a cow purchased by a readent in this township was found to be authoring from telescolosis." township was sound to be somering from econorcooms.

Was that a shrifted test?—The cow re-acted, though 2937. That was not confirmed by the milk commina-tion?—No. They said that the milk was of a poor quality, and that no build were distroyated. 2928. The second over also re-acted to the same test?

2000. Was the shoughtened?—So. In regard to the first cow, the owners' surplices were aroused by the quality of the milk. I suggested that he should test it, and he did so. He had only had been all the form of the surplices of

second now, and would not purches without the telescent test being applied. — 1cs. 2801. Then a work or so afterwards the whole berd was advertised for sole?—Yes. 2802. The suggestion offered was that the herd was

tubererbers was not that what you intended to rue-2005. Why did you want to prevent the sale of the heal? To provent the con that was tosted heirg

bought by some private owner as a milking cow. we sated very healy to the test. 2014. By re-noting very heally to the test, would n

Prof. Marray. That sometimes occurs, Witness,... She had exactly the same re-notion as the 2955, Mr. Winson,-Was the careaus of the arisms

-I do not think so. 2986. There was no evidence of tobeyrolosis in this

herd, except at the case of the two arranals that re-acted?—That is so, 2007. From the hitle I know of the subject in my own area here is not a herd in the country to which own area, here is not a herd in the country to which exactly the same thing would not apply. I do not that a thir proportion of the cover would re-est?—The

2008. It is interesting to lease why you wished to proved the sale of a hyad of which only two nows in-

could de nothers. 2009. I am very gird to have thus matter elected up, because the impression left on my mind was that

2040. Prof. Marrays.-As regards the re-action to the tuberculis best, you may get a re-action in an azimal only slightly affected with tuberculous, and the re-

234. I take it that it is not every our that re-noted that you would condum to shaughter?—No, unless I had some supplies before that there was something

2942. In other words, that there would be a amount of elitical baheronious an audence?- Yes, 2943. When an orumal is offreted clinically, it is possible that it is reflering from what is known as once.

2344. That is to say, it is disseminating the virus of 2945. And you think it would be well to get rid of

2946. And is what you must on, that you should have power to get not of an animal that is chainfully tubectu-

2947. £10 pt the resolvern compression allowed?-2948. You say you think that quite sufficient?—You in an autoni that is dimically toherculous. 2049. I take it you are of opinion that an animal that at takentohous is an animal that is in a very poor son-

2000. Do you believe that an surmal might have 

2951. In 16 possible that an animal may have toherculouis of the udder, and the leakes not be evident, over 2022, And is it possible that an azonal may have tolerestous of the older and only occasionally give toberele in the milk?-Yes 2005. If the milk of an animal suspected of giving tubereabus milk is to be thosoughly azamined, several acceptes should be taken?—You.

2954. And they should be examined besteriologically ?-Yes. \$665. By animal experiment - They should be, but 2006. Asimal experiment is the only true means of identifying tuberculous?—Yes. 2007. Mr. William.—I wish to sok one question. have different expoles of the milk examined?-Yes. 2908. But not by the method of the moralston of

nimal process.

Prof. Mayran ... That minimum the value of the ex-2020. Mr. O'Bann, Nos say in your summary of crizenes that you used to find a lot of dirty-handed milieris —Some time ago; yes.

290). Was at that they had no sies of elevalises.

2000. Was it that they had no siles of elocalizers, or as it because they had no deribties for elecalizers? think it was because they had no idea. 2013. Generally speaking, are the milkers given pro-per facilities for keeping their heads and alother alrea?

2902. Do the milkers in your district wear overalls? 2965, Just their ordinary clothes?-Yes, 2004. Do you not think that their ordinary elether

2965, And are rather age to lead to the possibility of the milk "-Yes; I do think ther

2006. Do you find the millions nullimn dry-banded? 2007. Do they occasionally milk dry-handed?-Yes. 2008. That is very tare?-It in 2000. Do you think they do it so well that way!-I do not think there is much difference. The majority of them dame their hands.

2000. Do you think that the practice of descriping the head-emiliting a little into the head, or worse still, putting them hand into the pail, so one of the chief

297). Do you think it would be possible to must on the militars milling dry-hunded?—I do not think it would be possible to watch them. They might do it 2673. Do you think it is always more difficult to milk dry-handed f-Yes.

2873. In certain places in Lancashire, the farmers 2074. Some people here have been of opinion that no could not do it dry-handed?—It would take more

Hose, and it would be more deficult. 2875. Prof. Marran.-What was exactly in your mind serie, real natures was was seen any or with white you wrote that paragraph in your prices of evidence. "I hold that no person should be allowed to keep a bull at stud unless he possesson a cartificate that

be desc. it presentedly understood test. Unless this be desc. it is presentedly understood try to starting out to be reculated in earth? "—I shought that in a case where ascernd of the offspring of a certain bull were affected that the case had produced this the case had produced this experience of the offspring of a certain bull were affected that the case had produced this three cases is hereaftery?—

2070. You do not think turbecouldes is hereaftery?— 2507. Mr. Witson.—The salves turned out tubered lour?—Not exactly, but they contracted it. I have

soon in a particular place within the last five morths.

250R, Peul. Mirran.—But the infection may have covered after birth?—Yes, but it is rather possion that they should all be from one buil. 9970. Not if all were exposed to the same infection

Miss Hovoma M. Harrs examined.

8980. The Crassman.-You are, I understand, a Senting Sub-Officer in the Rathraloss and Bathgar Urban Davinsty-You.

2001. And part of your duty is to inspect abops wherein milk is sold?—That is principally my duty. 25002. Do you find that the condition under which aufit is generally sold firity manifestory.—I do. have been operated more that points of time that between the points of time that it is a more than and when I was appointed these were about inely salarises to the distract. There are a surelie number now, but they have decreased in one way and in creates. By that I mean that about one fourth of the feely claims that there extend have the fourth of the feely claims that there extend have the

with the hypersus, one copy have been equation, and in the same premises, but in various other places throughout the district, by nearly a detain more, who are willing to comply with the law. 2000, Are these warders who produce the milk them.

2984. Do you think they see at all anxious to evade and the impection which you first bound to give in order to smoothin the conditions in which the milk is kept?

—At first they were not. When I want over those to become the ware not. When I want over three dances first they were not. When I want over three dances first the people had a certain idea of ofcushness, but not as regards details. Mfk vassels were washed wethout due oftention to the proper elementing of the existing on the ledgment of the milk therein, existics, resulting as the ledgmont of the milt'shoutin, and later producting verifieps. I had also great difficulty regarding the obscuring of the retories of breast aspectation to milt charms. In the majority of cases the casteen was to simply allow water to flow offerings, for the purpose of cleaning, and when I should be unscreed, in ociar to the later than the contract of the steps about the unscreed, in ociar to cleaning, and the state of the steps about the unscreed, in ociar to cleaning, and the state of the sta the be would afterwards leak. Often I turned course up so that I could examine the tap, and the result was that verifigets was discovered. I, however, got over that deficulty by degrees, and now, not only are all the tags unscrewed and theroughly cleaned only are nell the tage unnecessivel and theroughly also made dully, but they are constantly behild. The impossions are made on an average once a words, and arrest on the same day of the week, so that the people may not know on what day to expect row. I should say the first thing I pold perticiple silutions estimated to wait the entire of the milk. In score vessule I have in the arrest of the milk. In score vessule I have in the second of the milk. In the control of the control of the theory of the milk. The control of the milk of the milk. The people not being accontanted to heep their milk owered, used to forgot to put on the convex. This The people not nergy accumulation to accurate. This sourced, and so finges to put to the customs. This sourced is only found one fly in the milk. I discovered this survey of the duties, a could not always find the survey of the duties. They began to diminist in number, and although the began to diminist in number, and although the people where they had a taken asses in other duty shape where they had a taken asses in other duty shape where they had a taken assessment to be compared to the case I now a consistent and afterward. Yet must differ the mark I now a consistent and afterward.

state. In one of the cases I gave a caution, and are words I took a presecution and the man was fixed. 2985. That had a calatary effect?—Yes. Our day I took exception to a churn that was in a shop-it eams tock comption to a chorn that was in a skep—16 came from as collying distract, the next day I saw an-other chirac, which was a saw as told that that chirac which was for Man Hayou impostive. In the case of entireary pureyone with no chairy part obtained I impose the drainings of the premises, and when their is set raphs a great deal is draining the shock 200 in the chiracity of the chiracity o 16 set rager a greet case 18 cone. a inspect shore 200 vessels in the day, and carefully examine all the occus and cavities consisted therewith. Of some, the people do not like the cavities to be examined, they consider it soo particular. They are, however, externally overli and politic to me, In places where extremely civil and posts to me, in passes where there is no dairy attached a suitable store is creeked in the yard to keep venuels and milk. I have to deal with darry beye, and although I show them many foults I get the greatest politicase, even after a profolias : get the grancest pottenness, even inter a pro-coultion. About the east minappearing, our powers are mither limited. The people, if they have a vessel durly soit unife the impectation, can have R in another spectrument in the heats, and I have no power to enter that quarticacted, and if I had I would be tald the vessel

2986. You do thrule it would be desirable that power 2500, you so turn is would be measured that powers should be conferred on the local authority to enable their officer to inspect any parties of the house in which the milk is stored 5—Yes. There was a very good suggestion offered here to-day, that of having the dury independent of the house altogether, be oute it would be a very difficult thing for people to go out of the shop and go to the back of the premises to stre milk.

2387, Mr. Wilson,—You would be very much in favour of scaling up all the dairy premises?—Yes. 2988. The CRADIEUX—It would be a very duation remedy, no doubt.—Eer. The present state of affairs at very incorressent. Supposing I had the power to examine the whole house and I went to present a sample of milk; and suppose I found a observed of milk in backers or notice, these is the difficulty that it is a latchen or periour, there is the difficulty that it is not exposed for sale, according to the Food and

2000. The auggestion, I take it, is this, that where premises are lisecased for the sale of a seriain article, it should be considered that whatever quantity of that seticle is stored in the piece was part and percel of the article in commerce?—Quite so, whether it

2000. Because it is quite obvious that difficultion would arme and means be adopted to defeat the ends for which the Boles would be anade?—Yee, When the milk is brought in churns from the country, where perhaps the supervision is not very solven-when the tomes in very early in the morning by ming become in very enery in here anoming by one treates, and is emploid into a clean churse. I have to chance of examining the can in which the milk with brought, I have here a spectrose of foreign bodies similated out of a sample of bettermilk sent up because strained out or a compar or textermult some up-from the country to a prince in town, who retails at to a person in Hathminen; the butternille constances 39 per cent, of added water, in addition to the 35 per cent, sollowed by law. In order to try and get the cent, sollowed by law. In order to try and get the name out of the benchies if he were not guilty. I waited table matter; dung; a few fragments of flies and myrisds of mioro organisms. I took the sample from the strained mile. (The sample sets exhibited

2991. It buttermilk largely vended in Bothmuner?— Yell, It buttermilk largely vended in Bothmuner?— Not very largely. Sometimes for port of the year new milk is very socree, and it pays the vendors better to buy buttermilk for their customers. Buttermilk as used in behavior.

used in behavior.

2022, You have no superration over buttermilt that
would be used for belowies—I have, but not legally.

I sen over the weekshops as well, sed I go into the
behavior and extrame the rails. I get the people to
over it to protect it from contamination. I consider
how behavior in the histories of chieves; should not be allowed. Where the charme continue new sulls it be allowed. Where the charme continue new sulls it is had trough, but in the case of battermilt they are simply poissones. When sharms of this lind are used to contain buttermilt for sale in failure it but the people to theroughly cleanse the indicator before putting in the milk, and to rub a little butter on it coming in direct contact with the bease, and also, seconding as the milt is sold, and the bress becomes users and more exposed, to pub the indicator from the inten ann more exposers, so ruo the maintee from me surface of the malk superarile, not down, for fair of any lodgment that might possibly severations being intenduced into the milk. Some have done that serupulously. Buttermilk comes in from the country strupulously. Buttermilk comes in from the country in churas with beam indicates that are simply covered with verdigns. I had a prosecution the other

2006. That was buildermilk that was send into your distinct?—Yes.

2994. What penalty was imposed?-fe, fine and fe,

2005. Do you think that that is sufficient to most the criminality of the case?...No. But in this case the defence put forward was that the milk was not for sale-the Order relating to the cleanliness of only applies to vessels containing milk for sale-and it was alleged that the milk in question was for laking purposes; however, I do not think the fines see

101

conformed and an advantage of the conformed and an advantage of the conformed and th

And the second s

no pecably influed at all.

1997. With rapped to the poor, have you may opportunity of discovering whether or not the chalten
of the poor recover in your distance a sufficient granefficient, because a great feel of porety center, and
essentium people ford' make use of the story for
raik for their children. They make use of it for other
things.

998. No case has come under your observation in which the infant child was obviously suffering from wast of proper treatment or sounthmostly. No. These see not very many children bookle-fed smanget the very poor people. 1999. Mr. O'Bouss.—You mentioned just now that

MOD. Mr. O'Seisis.—Non mentioned just new think you could not git these peop people to get suffi for you'l—Yes.

3000. For what cases did they refuse?—It was hecourse they would not git the worker into tooklyo. In the case of states, some of the thirty propriation have sufficiently and the second of the state of the case ont very long any where I winded the stone of the shop, and whenever I called the stone of the wife.

of large services in the centre of the centr

2001. I am should we exame an histo his equation of the control of

3003. Sir Strwart Woomners.—Is there must also alcommed milk sold in your dastest?—Not mosh. There as only one shop that solfs sixtemed milk. 3004. What is it used for 3—Beking leved, princada, pully. I do not think poople drink it much.

4 8000. Mr. Wirasze. "With report as the straining of vincile, have the people is catabile wider rapply."
These is always a sufficient quantity of water, but I have only been precent at the obscurate, In the summer of the people is sufficient to the state of the summer of the people of the state of the

3007. They have that power at the process time, I take it, if they choose to use it?—That is to.
300. The point was that Urban Authorities would like to age power to go costide their own sews in race to me that the ralk was bandled under preper conditional?—Exc.

2002. If such powers were given, you would probably be one of those who would go be the country and see that the milk can were properly prested?—Too, but it would be more correctant for the local authority in the district where the land was attracted to import these.

900. You referred just now to the very large percepting of added water in butterculk?—I/co., 9011. There is no logal standard for tuttermile?— Yes, 25 per coart, of water periods in supposed to be sufficient under any consumbanes. 3012. I rather guthered that there was no logal standards—The Pool and Druge Art green 25 per coart. Miss Hosoma M. Hayes.—dik Jawary, 1912. 2013. There is a heist I have seen in other parts of

Iroland, of bringing pay feeding in the returned empty English for any payon in ore library, 2014, Mr. CANDELL.—What becomes of the plg feed in Batheriners—I suppose they have gother weeks for it. If we found case with pay-feeding in them we would remercise.

wented processors.—What would your substitute for the hans indisasted—An Inderestive or probed better. I would like to show the Commonous when the proper constitution of the direct Nine as neither length. The charms are deep and difficult to constitution. The charms are deep and difficult to constitution. The charms are deep and difficult to constitution. The charms are deep and difficult to constitute and in order to convex perfects imposing, the Charm's have provided to the charm of the charm's and the charm's have the induces of the tackback. They have their provided me with this Nottement, which has three points—one others of the car may be a support of the charm of the dark of the car may be a support of the charm of the charm's the dark of the car may be a support of the charm's the charm's the dark of the car may be a support of the charm's the charm's the dark of the car may be a support of the charm's the charm's the dark of the car may be a support of the charm's the charm's the charm's the support of the charm's the c

third for the lift. By this instrument I can occurrent if all parts of the vessels are perfectly clean. \$016. Mr. Caspunz,—Is there a searcity of milk in your area—Yes.

S017. What is at being sold at?—Proce 3d, to 4d, a quart.

S018. Bathmines has not got a working population—Tee, there are upwards of 350 tensors in the

Dailriet Conneil's outlages.

3028. And are they able to pay 4d a quart for milk!—
It comes dealer on them, because they buy it in smaller mostlines.

300. The present pince of stalls is each that the working people one not shid to get a prepar supply of it.
They can get it for 8d. a quart.
3001. Are they able to offeed it.—I decean they would for what they hay.
3002. You don't this that the children or the young

people are in west of milk increase of the high peoces— scorol say thin. For anyhody that as in very poor elevantiances, the Union supply the milk. 8003. East still, saling an ordinary working most, do you think that he is getting enough milk for his family?

you think that he is getting enough milk for his family?

—No.

5024. In there much separated milk brought m?—No.
There is only one person that I know of that cells it.

3005. What he is add at —I-d. per quart.

500s. Do you take samples of milk?—Yes, 500s. How do you take the sample—do you take the sample—do you take the deer, of the east?—in the course of deflivery at the deer, of I so out while to take it out of the can be in deflicering from, I can take it out of any other can on the east.
500s. How you found the quality satisfactory?—It is not too bad, I have been drout andy proceedings for

3000. What has been the prepending of int?—I had only about right cases of noith that was deprived of the last—Text are all the second of the last—I have to rely on the analysis deprived of its last—I have to rely on the analysis.

deprired of its fat \$-1 have to rely on the analy sertificate.

3331. Is that how be pose it \$-Yes.

3332. Does he say it contains added water \$-Yes.

3012. Does he say it contains added water S—Yes, it it does, and gives a certificate to that effect. 3033. Somations: it is certified that it is deprived of its feat — Yes. 3034. And sometimes the certificate is for sabilistated—"New there was a case where the milk was expected of six fall and there was tabled water. 3005. You cannot bell me supplying about the persistence of the same of the same of the person and the same of the same of the same of the same and the same of the "same," make average," "poor," sad "very poor" sad "sadeful."

poor " and " doubtful."

900; Muss McNutu.—Don't you get the specific percentege?—No, except in the case of shilltreaken or the
multi burng deprived of its fat.

3077. Mr. Caurrenza.—You got the details only when
rolls is odulterated or deprived of its fat?—You, not
otherwise.

2008. De you encourse the milk at the rullway station?—We have only Ranelagh and Milliours stations in our district, and they don't drilver milk at these staliers. It would be a very good thing to examine the development of the case and the milk at the stations. 3000. Hr. O'Barres.—You seem to have seen single andly shared the same that disappeer from the alapp? outly shared the case that disappeer from the alapp?—

only shout the case that disappear from the slasp?— Yes.

3640. All the slops are regulated?—They are,
3641. Would it be a good siturg if there was a registration number on the case too?—I thought of that slop 104 if would not were.

2042. You think it would be shouldedy of no use if the milk cars were numbered?—No, because there is a vortikeen in the number of care kept, and they have care sunctiones from other people. 2043. Can sent in from the county?—No, and some times the milk runs sheet and they have 4s boy the malk on the need. I found a new two whose the

many on the feed. I Jointh a can in a slope and was told this if was tell by a millionan.

3004. In the shape where the milk is sent in feets the contraly is the milk spreadly hapf in the case that is the kept in the case. This work I get a consecutive and in the street which came from the courtey, and I tack exception to it. We examined the intention of any forced a yether adoption at it has before, and I

by seads.

The seads of the sea

5097. See STEWART WOORNESS.—Do you believe that preservatives are used?—I don't think to. The analyst is supposed to extende example to see if preservatives that are fajoritos are present.

3569. Mr. CAMPROL.—Do you permit of preservatives at \$17-1 don't lossy. I suppose a seedl quantity is

61 silved. Jun't know. I suppose a small quantity is silved. Don't they use washing sods to keep the milk sweet?—I have not heard of it.

## Mr. ANDREW WATERN, M.R.C.V.R., examined.

2009. The Contrastax—Mr. Western, the Contrastance becomes no effected for regards to accept points given in your whether the regards to enter that I your whether the contrast to the contrast to the contrast points of the contras

the elegating of the metric of couched, on, which I am very struct. I would like to deal with their fixed are very struct. I would like to deal with their fixed. There are few many alternatives in the Artistic, and there is no definition of what out of flags are to be made to the structure of the proving the structure of the proving its for both their children enterior. I among promp solds, or what considers amongst. All the proving its for the control of the proving its for the control of the proving its for the control of the proving its form of the control of the proving the control of the contro

It is broken up. I think, threefore, that it is of the greatest possible imperhance, if we are to have proper consisted, proper beds and proper charged comman, that there should be a definition, and I have drafted a defini-

"Concrete for one had shall be formed of first layer of course graval, etc., upon which is a two-line layer of concorned (committing of six parts of clean gravel and one part Perthad commity, and over this again a two-lach layer of concrete, 5 to 2 fresh water sand and coment.

"Warn in by: 5 to 2 fresh water sand and coment.

" Three moles 6 to 1 parts of clean gravel and Four-unch broken stones."

335). Mr. Camputa.-Is not a two-mah layer rather

3301. Mr. CAMPRELL—Is not a two-such layer either thick?—I don't threk so, not for beavy cows sharding there for months. I think at its most shaper in the long run to by down each a good bed as will stand for 9322. Do the color udden not get damaged on the concepts; it is not very sold?—I don't think to. They 3135. We have lad coses of it repeated to us; in fact we have had numerous cases in which formers

too we have had numerous cases in which formers have had difficulty in looping the quarters of odders scored, and covered people stad that they thought is was the odd concrete that was during it. As you are aware, it is not always possible to have stream trades the oddy?—I don't think there as mook in that. I beard Dathin dargenes making a number of complaints against contract, and their chief objection is that the animal is listle to ellip, but I have never heard anyone complaining of the controls standing sore uddess.

3054. Would it be possible to suggest screening that
would be bindlier—I cannot think of a better word—

would be kindler—I owned think of a better word— to be upon?—Asphalt is man to be on. 2005. Would you be satisfied with ter, patch and said to great in cobile atomes?—You, if the cobile 2006. I have got a feeling that we should rather ad-weste that had of floor than concerts?—I would have

The Changan,-I) wealt not be less expenstyc? It would be more expensive, I think.

colole stepes are papelly there in the yead. You don't point of view?-No. 3869. The cows would not be so liable to skp?...No. 3960. And it would not be so sold?...It would have a

306). Mr. O'llanor,-Ou that question of the concrete floor, and allipping on it, don't you knink that the owns which are fudened up with what are called built not a great deal of support when they are rising, far more than if they were charmed un? I thenk the cow in ball 3060. It is impossible, I think, to keep them clean except by the use of bank?—From the point of view

of elegalizers, the cow in bails is better, but it looks a The CRAIMAN.-It is unpleasant for a new to standing, so to speak, at the edge of a precipion; if she

5063. Mr. Camrana,--- II you have the ordinary plan

That is what we advocate, and I think it is being adopted generally by designed as being the best that

Mr. O'Bones,...I exampt see any particular objection to the heils. The unimals one move their bands up and They cannot move backwards or forwards.

that they support themselves a good deal with the balls, and are not much purhased to step. 5064. Mr. Campuna.-How would you finish the 2005. Prof. Marrays .- One obsection to this concrettime up?-No.

5005. They got ing knees?—You.
5007. In Chestier, they always use a poddled clay in front?—You. n trous - and.

2008, The Charman, - Have you snything further to say on this question of faceting? - D suggest that the suppliciting selected to in sub-section B of Article 7 of the Order shall mean that the upper strate of coursels (res.,

two medical are replaced by asphalt, the other two shalls reconstruct unchanged. I have mentioned the other two strate in connection with the concrete floor already.

DEED. How does that work out as regards out as compared with concrete?—It is doner. You have to being lay boilers into the premises, and this is bound to run into more money than consrete. 5070. With reference to Article 10, sub-section of the Grider, you deal in your memorandum with the question as to the means to be provided for the clone-ing of the vessels; do you believe that the existing mothods are as effective as they should be?-They so

cleaned on the permises where the milk is sold.

3071. They could be more easily provided with per 30'1. They exist is more easily provided what pro-per appliances for daing it in the shop than in the yard?—Yes, there is no way of bedling water in the yard. There is another thing I would like to see in pard. There is another thing I would not be no in-force—a solitable clock of brushes for cleaning the churms, because I am afroid that the brushes that are

2072. And you would make it a condition, put as you do for the weaking of the honds of the milkers, that in commentant with the cleaning of the vessels in the

shops, brushes and other requestles that may be measured to the previded?—That is so.

1073, You emiertain a strong view with regard to canceror mill, for sale in whose shorting on brung. apariments?—I do. 2074. We have heard evidence of freeds smaley in consequence of this. We are told this the Southern Inspectors have not get power to enter any spectment other than the ameriment in which the make is ex-

Do you think it desirable that nower should not be the exact pleas where it is vended?—I do, our tasely. I think it is very necessary.

1975. There are some means adopted by renders of evoding the law; they refuse to supply samples on the nless that they have no milk to sale?—That is no. The

soil. The United St. Too not not the day wholes who has expressed that vow. Tou criterists the openion that where there as a suspence with regard to the condition in which the milks is supplied, there should be power to suspend the mile of at 1—Not alone. should be power to supposed the rule of 20<sup>18</sup>—704 shows to suppose, but the local stockery uppits to have full power to featery all milt under supposes, and to give the rule of the supposes, and the grade of the rule of the rule and allow compressions. If the Local Generation House of the supposes of the rule of the rule and allow compressions. If the Local Generation House we have been supposed to the rule of the compressions which have been also bee

3079. I think you want into the question of the manure pet on the consists of you previous exami-nation, so I take it that that is not one of the questions on which you desire to amplify your evidence?

There is a definally in fixing the distance from the cowshed to the manure been. If you fix the same figure in the city as in the country you would done Mr. Axenny Warson.-5th January, 1912.

3000. Mr. CANTERIA, And something depends upon the way he whath it is hops thore. If it is scattered all around the place, so that people's clothes become confusionated with it, that is different from where it is loopl in a proper recognizable—Tes.

2051. You would take into consideration also whether the milk was carried thorough that yard?-Yes. 2002. The Board of Works' witness said thei three fixed sixty fact, not because it was obsolutely mean-ney, but because it was subsolutely mean-ney, but because it was sufe?—I think it is scarcely

necessary to put a murary not that electrone over 3060. The important thing so that it is so kept that it is not a source of contamination?—That is so. 2084. The CHARMAN,-You say in your points, " No mention is ever made of the dairy yard or other buildsegs in connection with the cowahed; per does the pencus law admit may Regulations being made as to penions now amont any continuous sensy must se so, the construction of the other buildings, nor as to the surface of the yeed." You think that a very undesir-able condition of things?—I think it is very undesir-able condition of things?—I think it is very undesiruhla.

able. It is exposurite to neve a cream coverage wrom a yard whose surface is like a plenghed field in well weather, and whole te sakenshed with the surretayes of the numel. We frequently go listo the dairy yard and find it is the fillings condition. I know that this has been a serious oruse of complaint, even by the Local Government Board Inspectors, but it appears we have no legal powers. Before we can bring have an respect of the years we must get a special Act

3086. There is no province made in the law to inprove the elecularies or smallery condition of the yard? -Vant in so.

— Tank is so, 1998. You give us loss an extensi from the Ginapow Police Anneadment Act of 1890 in reference to Article 22 of the Cowhalds Oeder, and you state the extract would meet the requirements of this case—Tex. If you not limit a word of the clustes I have given from the continuous and the c These are the Cleuses in the Act to which I refer -

"Whenever it shall be cartified to the Corporation by the Medical Officer or other regutered medical proofrilener that the outbreak or spread of infectious prioritioner that the outerest or spread of informers discuss within the city is, on the opinion of such Medical Officer or Medical Practitioner, attributable Medical Officer or section! Practimoses, bleinbussess to the milk supplied by any conveloper, purveyer of milk, whether wholesals or restal, or compare of a duty milk store, milk shop, or to milk supplied by one or other of servars such cowkespeet, purveyors of milk, whether wholesals or restall, or compeers of dairies, malk stores or malk shops-

" (1) The Corporation may require rath cow-(1) The corporates they require man cow-keeper, purveyor of milk or occupier, whither within a wethout the city, to furnish to them, within a time to be fixed by them, a full and correlate list of the names and addresses of all his contoners within the city so far as known to him, and such cowkeeper, pursuper of milk co-occupies shall furnish such list accord-ingly, and the Corporation shall pay to him for ingly, and the Corporation shall pay to him for every such has at the rate of sixpence for every 25 means contained therein, but no such payment shall exceed two shillings, and every person who shed wilfully or knowingly offered against constiment shall for each such offence be liable to a penalty not exceeding five pounds, and to a daily possity not exceeding forty shiffings.

(8) The Corporation may require such cov-locepers or other to formula to them, within a time to be fixed by them, a full and complete list of the sames and samesses of mas tremens, now herepore, sull denkers, or other parties from whom, during a period to be specified, the miffs or any part of the milk which they sell or distribute was per of the max whose nery sen or descence and abstraced, and, if required, to preduce and rathful to the Medical Officer or any purson depoted by almo, all invasces, peas books, accounts or con-tracts, compacted with the consequences or puchase of mist during such person, and much cow-keepers or others shall formule such liefs and pro-

duce and exhibit such invotors, pass books, as counts or contracts occurringly, and every person who shall widelity or knowingly effects on garma this continues shall for every such effects to linkle to a penalty not exceeding five pounds, and to a dealy penalty not exceeding 49)..." 3087. You think it is desirable that the Local Au-

sees. You timin it is desirable that the Local Au-theory should be furnished with a list showing the testibutes of the people engaged in drawing the will, from the cost and hashing it at its variety stages, in order to custom that they would not be dissecurated of discose thermalwar—Yea. You would fun have all the conditions set out SCHO. 5068. You would han nave all the commuters set out in the Glasses of the Glasgow Act, which you have quoted, put into operation in Iroland?—Yes, 3088. Without any limitation wholever?—Yes, with-

one any limitation.

3990. Lady Evenann.—I see that in connection with Article 16 of the Order you say: "Are the learned professions and the public really in carness observe wash. ng milk free from tuberculosa; if so, how is it that ing this use from supercussus; a so, now it as seen the large hospitals and institutions governed by medi-cal men and good class commercial men do not main old men one good case commercies men do nos assume that the mills supplied to those institutions is free shock that has had the tolerculin hast applied to it." What means here you of knowing that this is not done?—I have made linguince, and I know it as not

done.

3001. The Crammar.—Woold you simpler all the
anomals that re-act?—It would depend whether they
were suffering from open inherculates. I would recommend inclusion of this reactors from the healthy stock, but in cases of open tubercrieus I would re-

commend alsogater, 3002, Mr. Wrones many.—I saw recently a coweled built 3002. Mr. window.—1 hav recently a covered outside the principle shown in this sketch. (Exkedited.) In the construction yes will notice that no timber touches timber; there is no place for water to lodge. and there is no place where there is lack of ventila-tion. Would you appears of a hubbling as constructed? -Yes. I would certainly like it to be laid down dia-tinoity what material about be used in the creetion of the dary sheds, because I think the less timber in the counted the better. If carbatrely built of conthe downers are thereby an extensively result to con-crete, beside, or sings, and with a side or palvoused roof, I thrik it would be better, so the hinding would then aimit of better distriction. Where you have buildings composed of timber it is almost impossible

buildings composed of timber it is almost Supossible to have particle distribution. 3900 Mr. Content.—You reduced somewhere in 5900 Mr. Content.—You reduced somewhere in your evidence to the fact that you fastisted to resilicate would a sunceive—Yes. would a suposible the property of the content of the would be reduced by the content of the content of the suposit has reduced by an admissible to use it, but they

sould be induced to write a good aproxi-natisfy you?—Yes, if it was big exough, 2003. Pool Manney. Prof. Marray. -- An apon and sleeves, of 3000. Mr. Campung. There are no sleeves, had you

ink they are very essentici?—Yes.

3007. The CHRISTON—Is there my further point you would like to deal with? There is just the ques-tion of the regulations as to the keeping of page under 3098. Is not that cofficiently strict?-No. rigs ought to be excluded altogether from deary pre-rians. The Detries and Cowsbois Order only objects mass. The Delvies and Cowabeds Defer only objects to page being kepf in the came sheds where the cowa

to page being area in one came manes ware the cover are. Owing to the minure in which gips are kept in Dublin, and the possibility of the infection of the mile, I would exclude them altogether from the dairy yard, \$000. Prof. Marries, This would apply to sity darry yessis?—Yes.
\$100. Yes sould not exclude them from the darry yards in the country?—I would like to see them put \$102. Mr. Camrenta - What do you mean by a darry year? I mean a year where the cows are keen, 3162. Do you find any difficulty in understanding

these terms in the Order 5-No.

3103. The Order is quite clear to you?-Yee. The Commission then adjourned to the following morning.

### TENTH DAY —SATURDAY, 67H JANUARY, 1912.

The Commissioners met at No. 5, Upper Castle Yard, Dublin.

Present:-P. J. O'NELL, Esc. (Chairman); Lady Everand: Miss Margaret McNell.: Sir STEWART WOODHOUSE, N.D.; ALEC. WILSON, Egg.; DERMOD O'BRIES, Egg.; J. R. CAMPRICIA. Esq., B Sc.; Professor A. E. MEYTAN, B Sc., M R.C V.S.

Mr. Joseph Harce, J.P., coursing wid the selling page of the male then and now?-The selling union of the milk then was is, id, wer siden

3504, You are Provident of the Dublin Cowlespera and Disgressor's Association?--Yes.

S106. And no doubt you are familiar with the gods in all its phases?—I don't think anyone knows more about the weeking of the city in the dairy like than I

\$107. You intimate in you prous of ovalence that you desire to indicate the difference that exists betwenty or thirty years ago?—Yes, or forty years ago. Forty years ago cattle were much charper —in fast, up to twenty. For years ago they were much cheaper than they are new; feeding rinds was more broweries in the city, and the system adopted their of granding and the system adopted now successful their or greening and the system assesses over ore different in regard to the grains on which the cuttle on the cuty are principally ied. The persons system takes needy of the matrixen away. The horsesty current used to grittle outsition away. The increasing mind to be livering green out a must take us one can of the season to finish the coulds, and we got good puces when they wore Amshed. I have a little book here than I keep do may one information showing the period of cardia. Here are setter retrievals from it —In the law 1859, "see one from Binningham, 212."

Since Price are proteineds—Yes—Yes end within the Kerten, 2GT, "on a springer from Partial, from Partial, and Partial Price Pr S108. These are purchase?-Yes. "Two ted heifers 3000. It movesses the coeff—Tro. At that time inbour was only from 14s, to 24s a week for very good meet. It is now 23s. No matter what clear of man we take in we must pay him 23s, or the other man sheady in our employment won't work with him 3110. In that the standard mages for melketa?-Yes

and they have nothing to do but missl the cuttle and milk. If you were him making they would not put a \$111. The information you have given us shows that the capital yea mended treaty-five years age is the stock to produce milk was relatively counderably less than what would be required to produce the same class of stock at the present day 9—Yea. S112. And also that the food which is soutable for

three cattle, namely, brewers' grain, hes deteriorated in quelity considerably since that pasterslar time?— 3338. Would you be good enough to give us the relative prices of the boswers' genus then and now,

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3114. What are the prices now?-1s, a gallog to the summer and is, 46, a callon to winter for milk, and 3115. You are not now giving us individual price

S. W. STRANGE, Esq., Secretary.

stadys—Yee.

3114. The is more self-sfractory. With regard to the cost of the genine, is the greater or loss than it was it was to cost of the genine, is the greater or loss than it was the cost of the state of the cost of as food for cathle throughout the scantry?—No.

3118. The consequence being that the entire grain
product of the Dasim distillation and betweeler was

evaluable for the cowlesspers of the city of Dublin !-S119. Mr. Campuna, -They were not diving grant 5120 The Courses N. Gours see sent to the cour-

try now in wagons by roll in a way in which it was not done years ago?—It has not been combined 1913 than years ogo.

3923. And, of owner, that has considerably been und

a quantity for the covicepers of Dabha — Yes, and

the quantity for the covicepers of Dabha — Yes, and

be odded of become ground in the bath. Outman's

be odded of become ground in the bath. Outman's give the people sutuse the grants at 3d, a barrel less has they give them to people in the city.
3121. Those that ore sent by rad would be sold at 3223. Has the cost of folder-bry and stand-varied

the suncer woman whether or of a rough to you will be some the contract from you boad—"? On the latest the contract from you boad—"? I not not you boad—"? I not you boad—"?

commission, weighting, and cover the expenses of commission, weighting, and carriage, end that the expense get nothing for his hay. \$155, The Chumnay.—There was a debit balance arginet loss?—Vers. 3227. Prof. Marray -That does not occur very often

3128. The Champers -At the period to which y side, the Changes - At the pence to water you wife, the quantity of milk sent into Dublin from cul-side was considerably less than now?—Yes. There was

106

3139. At what period did the milk begin to occur in large quantities by said?—Pitteen years ago at earno in thereforce. Before that it only earns now as then. When the recommend had no overplus they

\$130. And would it be said at a price less than that SISI. I believe the cost of trems has been reduced

\$132. These are now more facilities for the energings of milk by train these were given whom the trade was of less volume?—You. They are sending a less of mall;

at the present time. When I was in England in at the persons time. When I was in England in September, the Editio of our paper, and the Chair-roon, Sir George Burom, were talking about prices, and they were saying that there was a quantity of suffic country title Loudon from the South of Ireland

\$153. We have had that shready in evidence regards the cost of graving cows, we all know that all Has that varied from the period with which you are immiliar, up to the present?—Yes, because a lot of grass used to be takes then from the sense by the grasse, and there was no intermediate man. No architecture interfered in the matter, and they used to make their own prices, and in many cases I used to

who would have to give Mila. \$186. The trade is carried on differently now; it is

side. He has a saving in discrete law, in a done by commission agents, and the commission is sharped on the land bought?—Yes. 3185. And that is an additional breden on the cov-mence?—Yes.

3136. You wish also to refer to the prices current for

8137. And that is largely due to the importation of frozen ment?—Chilled beef. 3139. The market which was heretofore supplied by fettened dairy cows is now supplied by chilled

3139. And that seriously deprociated the price of the

futtened cow?-Yes. 2142. With regard to the Darriss and Cowsheds Order. interfered with or restricted the trade in milk?—Well, that is yest what I wanted to tell you. Since I sent in my prices of evidence. I get the oldest man in the trade majority of the come were kept in Mamowhous Lane Now there are only between 500 and 600 cown in that

3141. To what do you attribute that change?-In the work-winter and summer-early hours, long bours in the shops, very often purhaps having to go to fourth in the smops, very owner personner waving to go, we the yard to look after a speringer, and flast you all might. Thus you have, pechage, irrapectors like Mr. Waston counting in, who order you to do show and that. Of course, the majority of the men in the trade have no course, the majority of the men in this trade have no counting in, who order you do do the trade have no counting in.

34.2. That is, the yards and the premises in which the cows are kepts—Yes. And you cannot expect them to expect much manay on them. I have real the ev-dence of the Lood deverment Board writions, who

interest us the premiums.

3163. Certainly not. Theé ordence was given by the Beard of Works witness, and it refers more to the country than to the city. That witness said that the Beard of Works was prepared to sivenae money for the crection, of ever byres of a certain standard prepos tion, but, of course, that applies to the country rather than to the city?-I can afreed these is not mobile enough to induce men with capital to go into the cow-

Reciping business.

3144. The varieties in trade and colorion in great have been instrumental, in your opinion, in reducing the number of those who are copping in our steeping as to occupation?-Yes. And many of their families who \$145. I do not think you quite answered my que

tion as to the effect of the Duries and Cowshells tion as to the effect of the Burles and Cowsheds Order. What I want to know its, have far do you thank the operations of that Order have militasted against the inferests of the trade?—Well, I would be as forces of strict supervisors, but so more ease the

3146. You meso then qualifications are not as high as they ought to be?-Yes. And they are very

aggressive to those whom may use.

3147. We can hundly go into the question of their
manner and decovarion. With regard to the quelimanner and decovarion. With regard to the quelirespection of the cowe and decree generally?-I would. I have known mee here, sentiary importors, would. I have known men bore, semming impressing coming into the yorks sed ordering the eather to be removed, and when Mr. Watson was colled in to consume the eatile he said there was nothing wread with them. The impublished imprebe coming into a yield cent give a not on touson and mesoyance.

314R Quite true. And you think that with a higher sense of responsibility and better training, the administration of the Order would be less inknown to the one-keepers and, more efficient from the point of

view of administration?—Yes. 3149. You think the Local Authorities would be ones, for these the Local Authorities would be warranted in paying increased salaries to the officers they coupley rather than to take unqualified men at lower salaries?—I do.

3150. And you think that would be a meful ex-pessione of public money?—It would, I believe. In Englished they have no soich thing as sanitary officer, It is a velocincey suppose, and he goes round. He cree carticle this direct. I know to been he goes

you outside his district. I know in Leons he seen or twelve miles into the country to impact cattle whose milk is coming rate the city. 3151. I take it that the Leeds Municipal Anthodity has obtained power under a local Act to enable them to go into the country to import the stock from which the male is sent into the city?-Yes; and when there

3152. Coming to the quarties of tubeconlosis—has not that makely been very much reduced?—I carmot treated most all the Pablic Health Congresses in the Contest Kingdom for some years part, and all the popers, both in the Veterium; socious such in the Public Health socious, were, fire or six years ago, about the requisition of more cells. Well, of course, taken the public sections of the congress of the conparent in the discretton, and I put several questions. The speakers admitted that they were speaking from

\$100. Perhaps if I put the question in this way you would be able to give no seen helpful informa-tion; from your own experiesce, do you think the number of eatth, suffering from toberculous is greater or less than trenty yours 2017—Lis is less in the Dub-

lin diniciot. \$154. Here you had animals condemned, or have any of the members of your trade had animals our any of the members of your trade had animals con-demand, by the Inspectors of the Corporation for climical tenerculous;—We had. These have been several members, and in one case Mr. Wation got an several members, and in one case Mr. Wation got an seemal slaughtered, sed there was no sage of any disease, and the mon got nothing but the price of the

\$155. He only got what the carensa realized?-Yes, 2856. Of course, that might be on isolated case,

but, speaking generally, what percentage of cows have been shapplered by order of the Veterinary Expender of Dollin for channel toberculous?—I should 3157. Would it amount to one per cent?-I do not believe it would. I seked Mr. Hedley some years ago 107

what was the percentage of teherceloris at the time of the wholesale tlaughter Order, and he told me it was only a decimal, and that no spore healthy outline brought into the Abstroir and slenghtered. 3138. What period do you refer to as the wholestic designers person?—1894 and 1866, under the Pleuse-Pacturous Act.

3359. Frod. Marrous...-Thore were so very careful intuitive route as remode teleposations?---I do not statistics made as regueds telepresions?—I

3160. The CRAMMAN,-The mumbers of your trade, rpeaking grangly, are only willing to e-specific with the Loral Authorities in ceiter to scene the per-duction of nalk under the most cleanly and hygienic conditions panalsh?—"Less, seeb and every one of

5464. Even sithough the conditions laid down may to some degree atmost fragacial burdens on them, are

they still willing to comply with the requirements in order to secure the health of the community at large? 3162. From your personal experience, do you think more care is exceeded now with regard to the elevation ness of the male vessels and the personal habits of

ness of the malic vessels and the personal labels of those emproyed as the trade than theory-free year-apol-—At that time it was only at only them their was used. Now it is a steel clum, and they see much noise centry denamed. A small lattife of water would obscuse three, and suyane who wend not keep them closes, I would have no sympathy for them if

3163. It is so simple that it would be superdoughle 3165. With regard to the personal habits of the milkest, have they improved under the administration of secunt Orders?—You.

10.65. And the men are more cureful with regard to

treaty common min has vasant acceptanted clean, than they even ten or twales pose ago-Tiney or slover in dread of a viril from the Dairy and Veteri-tary Lingcole; they do not know who is incohing at the gate, and they are avaisate to been thermarken clean. Everyone in the tande applies a tered and plonty of seap and water, so there is no excuse. 3166. With regard to the keeping of the sheds in

outd. with regain to the respiring of the sheets in which the order are been of during the winter sensors, have they have improved to say considerable exten-by reason of the inspection and of the Orders laid downly-They have, sp. I had to improve some of my own whole to press Mr. Watson.

3267. Will you tell the Commission how for time the result of these conditions has restricted the supply of mile. Well, I should not say that the are conditions have restricted the supply of nifk. It is the rice who so not care to savest their money in

3108. You think it is not by reason of the worry consequent on the varies of the Empetters that a cer-tain combine of people have shandouted the tende, but because the brances has coused to be a remaining because this ownerse and course to no a communi-tive occupation?—Yes. Our satisface of my books has told as that for the third quarter of lost year we were over £100 oct. I am not a philimithropist, and I should not ome to corry on the letel if I were to

3160. Everyone expects a reward for his time, labour, and supervision, and that is, of contra, not intreasuable or nonoteral. With regard to the ques-

intronsemble or communa. With regime to the ques-tion of compressation paid for the azimuch that ove proved to be reflering from inherculator, do you think the the sum allowed, Albi, under the provisions of the Act as sufferent?—More to encourage the next to report the ease immediately. 39%. You would convey to the Commission that if the owner of a suspected natural felt satisfied that if

distely his suspicious were aroused?-That is up. duoley his surjections were arouself—That is no. 1971. Do you think that the Local statherity sloyald to the body responsible for the comparisation to be pead for the destruction of a timath in order to safe, good this public health—I do think no, because stylling that it does for the public good of the different should be pead for by the principle.

8172. I named to know whether you thought the critisens should pay the compensation, or whether the State should become contributes?—I would profer that the State should contribute. The Danch State about the course community—I was prome that the State should contribute. The Danish Coveringent places 40,400 a year at the disposal of the Minister of Agriculture, and they provide the sources of the relegant yanges and the tuberculus. free. And they give process accordly to the lords 3878. Do you not think it would be so the interest of the inde generally that the Orders governing the

prediction and sale of milk should apply americally in city and sountry?—I do. 3174 Is it your opinion that proprietors in either where the Grider is rigidly enforced by the Local Authorities are compaling on fair terms with those who reads is outer district, where the Order is bless who reside is cutter districts where the Orders is not displify othered, or not enforced at all—I believe lifet what applies to one should apply to all. Most see contain all the olds from many districts where there is no control whatever. They came is not dis-trict the old of the old of the old of the work there. They came is not all the old of the work there. They milk. That is very mydeolast. We have to compele with those men, who do all the work there, select; they milk the sows said feel them and distri-

proper condition when he has to come and other proper condition when he has to come into the care to delvow milk, nor can be he in a cleanly state to show ralk when he has that other work to do. 3375. I wanted to know at ... is the rails where he has that other work to no.

SiTa. I wanted to know if it was your course that
when Dabbin ownerpers were compelled to put contun capital expenditure into their precises and contun capital expenditure into their precises and conply with stringent rules, and are compelled to competo with other milk proprietors where such rules are not cultored—do you think that is fell competition? —I do not think it is.

3176. Do you think, Mr. Hatch, that it would be essential that there should be universal application of whatever Order is issued governing the production and sale of mile?—I do. 5177. That no matter where the person in the teads is resident, he should be controlled by the same con-ditions and by the same regulations as person in only where he is a competitor with the resident pro-

SITS. I see that you took the presention at one period of having a keek of your own subjected to the tuberculin test?—Yes.

interruin tests.—Yes, 3772. Did that's eay way increase the domand fit 3772. Did that's eay way increase the absenced your animals to that icest—I will be a substantial your extraction. If get Professor M. Warrary and Mr. extraction. If get Professor M. Warrary and Mr. or present tests. If get Professor M. Warrary and Mr. or present tests. If get Professor M. Warrary and Mr. or present tests. If get Professor M. Warrary and Mr. or professor in the substantial test of the discount of the for R. There were two or these ro-actions, and Pre-fessor M. Warrary both zinche two scores that he could be considered to the contraction of the con-traction of the contraction of the con-Score IN Wessery tidd are by was every tidd be easily at your periods. I soled him why, and he may be a supported to the period of the core. I stake him week! I have to strongly a support of the core. I stake him week! I have to strongly a support of the core of the cor

5180. Mr. Wilson.-How many minute did you 3383. Out of the forty there were only three that re-noted 5-- The third was only impacted.

1382. The Commun.—How many votes ago is nat?—thous right or mine years. Eight, I should that?- those right or mor years.

388. I am corry that the public did not appreciate your action is applying the test, but I am rother motined to think that public opinion at that since was clined to think this justice parties at that since was too in the high periods of this triplet as it is now. Do you think your notions would have now appreciation that it was the period times that it was the T-T-T do not period the site of the period times that it will not give appreciation to most who constitute will not give appreciation to most who constitute the north white the settle will have. They will go and proteins the settle will every they can get it sheaped. Score years ago I was every they can get it sheaped.

serving a Judge in Pitrwilliam Place, and this Judge was dealing with on for some years. Then a map rame to serve the house next door, and we lost the Judge's custom because he offered milk at 4d, a quest less than we were charging, and he was paying the cook for the offs! of the kiloben and taking it away in his curt. That is not fair competition, and the code for the offse of the blooms were a seasy in his cost. That is not his competition, and it does not show that over learned gentlemen appreciate all that the trade does. I had several contempts in Morrious Sequere, and I have sometimes reased to put the rails into the vessels brought to member the property of the contempts of the contemp results brought from some of the best houses in Mer-rica Square. I remember refusing to put milk into a stowpan which was taken out of a scullery, because

if was not in a proper condition. 3484. So that, apparently, all the trouble in regard to the decadings of the milk does not sake from the dairy yands?—No, sar. Often in our slope we have to send to the drivy to could the vessels that are brought to put milk into. There are a couple of

matters here that I wish to mention, if you have no \$185. Certainly not; we wrent all the information we can get?—I gave you already the number of cows, 2,544, that were at one time within a quarter of a mile of my dury as Cook Street, and I told you

that that number was reduced to 500 or 600. \$180. Prof. Merran.—How long ago won that?—

3187. The CHARMANN—Have these cattle been trousferred to other desires in the city, or her this number of mills-producing snimals been reduced to that extent?—The number has been reduced to that

asset. I take it that, from time to time, the dis-hasts in which these deep yards are situated charge. Certim developments that just in certim districts, with the world that the drawy pards are obliged to the week—Not in the detrict I have mentioned. 3180. That does happen in other phone?-It might.

5100. But the change to which you refer was not in any degree consequent on mything of a similar nature?—No. B is the reduction in the trade. The men who were in it made no pentit out of it, and were not able to meet their healthing in the and We object as a body to the restaurants in the city We coped he away or the researches of any supplying milk to their customers from doornes out-side the city. They bring the milk from their ceta-lialments in the country, and take back pig-feeding been delivered.

3191. I went to he perfectly clear on that point

\$192. Prof. Marray -- How see you to catch tham?

\$100. The Chambers.-Mr. Hatch's point is that the members of his trade are under state appreciate, and he thinks that those engaged in an analogous trade abuild be under equally rigid rapulations?—Yes. A lady may go into a restaurant with tions?—Yes. A tisty may go into a rectainment with five or six children, and give each of them a glass of milk. The cow that supplies thet milk is an hable to be such and to be breeding disease as the cow of the

would be blazzed for st; and there is no redress. 3194. I understand. But when you committed 30%), i unnerstate, see a very location of the pricepted of uniform application of the Order in all distrets, whether in the city or country, that, I take it, would cover the difficulty adding out of the complaint to wheth you acter?—I hope it

\$150. As for as administration can go, it would?-3196. I am quite with you in that?-We object to

collecting pip-feeding in any cart that has been deliver-ing sulk. It is not right or far to be collecting pipfeeding in any cart that has been delivering milk. 3197. These are matters rather for the administra-tive antiporities in the city, but of course it is quite right that you should draw public ratentics to them? -That is what I want to do. We believe that the sundary inspectors should not be dairy inspectors. 3236. You think that the duties of inspection

\$490. And you have experience of inconventions esting from non-professional men giving orders which were subsequently oversiden by their

superiors?- Nov. And when certain lody samitary in sectors visit the district, they come out of tenement had perhaps been touching the sputum, and day it into the milk vessel. There is not much bygenre about that. I may say that the majority of our mem-bers come from the Buttemines district, and I read the evidence which Dr. Because gave here as regards erveral things. I do not find any objection to his criticism, but I believe we have the right to criticise

no return.

3260. That is only far?—That is all I filink I would wish to bring under your notice. I might say that with eagend to the tableculfs test shat Dr. Molvanny, of the Alexandra College, was the only one that took a deep interest in it. We have "bit of institutions governed by professional men and eithers, and it (abbreciate is such a neiton quotient, it is very strange that they don't recommend the tuberstaldren's hospitale, orphaneges, bending

Mr. Witson,-I myself approunted three separate public bedize, one s children's hospital and two other hospitals, to see if they would give me any encouragement to apply the toperculin test on increased price for the milk, and all declared, and that was univ two

for the must, and as we come they present, is there any institution in Dablin that makes such a requirement?—Not one. No basystel or union or orphomogeneous and a state of the such as th ment?—Not one. No busyated or union or orphunage or college, and there are a great number of colleges now existing observator which insist on having the test applied. The price of the milk governs over-

3302. The CHARMAN,—Are any questions asked by any purchasers with regard to the conditions under which the milk is produced?—I don't think so. SMS. You have no general experience that would enable you to say that inquiries are mode in order to entirly the people who see paying for the milk that it is produced under hygienic conditions—No.

3004. They take what they got, and the main fac-tor is the price?—Yes. They would go to the weest conducted dusty in the weedt and not insusting district, and take the milk if they got is for a half-

18245. Lady Evzzana,—You spoke about sevieu-ote7—You. 8906. Does the malk come from the restaurant

9207. They have a farm of their own?-They have. 3808. You consider because they supply the public at the restourest that they ought to be under the seme rates as any daryman?—Yes. No matter where the milk is cold, or by whom it is cold, all should come under the same regulation.

3500. I asked a question of other whether the horsetule did not connel any test to be made "-They do not. 3210. Sr Srawarr Weemouse.—Does the Cor-keepes' Association apply to the City of Dubin sione?—City and district. B good to Tercoure, and as far os Buildneishum and Blue Bell, on the Neas Bood, and crossing to Knoblesor and down to Chasel-

3211. So that all that area is subject to the Order?

8213. What proportion, roughly speaking, of the milk section in from beyond that area—milk that is not supervised or improded; would you say one-halff —I would say these might be out-third.

SGIS. The CHARMAN.—One-third of the whole of the cuts supply S.—Na. One-shird of the cupily to this district. The Great Scothern and Western Railway heing up milk, which is oftenwards solid by some of

their employees to their workers.

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2214. Prof. Murrant.-Do you mean that the rail way company supply their own employees?-No. \$815. And is the milk distributed by the officers of

23H. The Commun.—In that done for profit or movely for the advantage of the employees.—I can-

2017. Have they an emporator for the distribution of the refle, or is it distributed from the coar in small quantities as it comes from the coarsiny—No. If referred to the employees, not to the Company. In lew cases is the steel charm covered. Mr. Watern dances about the place in only darms when he does 3128. Sir Syrwany Woossocom.—I take at short one-third of the milk supply of this large area comes from an optible district?—Yes.

3219. How is it that milk is cheaper now than it was twenty years upo, although the cattle have gone up in price?—At that time cattle were cheaper, and there were better milking cours. There was an old up in price — At that time onto were onesper, and there were before milling over. There was an old like breed, and that hered would give nearly one-half an much more as the ordinary occus-beeds may and it would be under mills. People have left the dairy hade because it is not perfishely. We have to

don't get proper remaperation 2220. If the competition is lessoned on second of there being fence suppliers, one would think the price would go up "—It less not. I would be sorry to do an injury to my poorer neighbours, but we must redo an ingury to rig power neighbours, but we must rescale this the public at large are not doing anyther themselves, and it would be very difficult to also up a list of men and but be ourseave ones. It is not supply that the content of the supply and the content of the supply and power of the content of the supply and and what the supply and the sup they tell us that they can got it for Mi. a quart at an other place. In London the price is Mi. a quart.

1881. The CHAIRMAN .- Last year what was the winter perce in Dobby?--64, a quart and 54. I get 56, a quart for surnery milk, which I have adopted after seeing it used in London and on the Continent. The case are scaled and plugged with perchanent, and nothing can pt into the can on its way to the consumer, and if the seal is braken on its way to the numery we expect
compliants. The danger is in leaving the care orbide the door. Several came of mile have been taken from us. The servant won't come out, and the can is left there, and when we call hook for the empty can we are told

2222. Lady Evenano,-Do you know what is the serial perso of the milk sent from the country to public metitations in Dublin !-- I do not think there a malk of any hand sent up from the country to institutions in the city.

SEES. I am speaking of hospitals. I know a case of people who send milk in winter and summer to the inoquisis?—I don't losse, but I know people who paid 186. a gillon to reidel if nexts.

8384. Mr. Winsow,-I would like to sek you, Hatch, what magnetious you would make to the Comrelation, what suggestions you knowledge of the dairy trade, in order to make any introversions in the what

soling others. I do not went to take upon myself oxyding that I would not be equal to. Evrything I have exid a from foots and figure. I have collected myself, and I would not like to po note the question of recommendation, but I believe that the magnity of the very small men in the only would be most an-doubted by any interference with the bands. It is a pilly that they should be bot if there was an interference they should get compensation, I think. Another thing I would like to direct attention to is that non-mentance come up to the city and start cow-keeping without my qualifications whatever. They shart with these or ony quantitations whosever. They start with these or four cows in the city and some page, and they have no knowledge of cows, or pige, to homes. They have no checation, and they know nothing shout the tends. 3225. That brings up the question that has been before us a good deal—a suggestion that dairy promises, where either milk is sold or come loop, should be licensed under than neglistered?—I would obvesse that all darks he licensed, that I can giving own opinion now, and am not specking on behalf of anyone class

Mr. Jassey Harry -- 5th Ja

the question that

3226. That is what we want to get-your opinion?

—I would be in favour of licensing. 2227. What was put before us was that the licences should be held subject to cleanly conditions being ob-

3228. And that after, say, three convictions for in-southry conditions the beaute should be withdrawn— that was the suggestion made to no7—I hellers in

2229. You think that would be a practical method which would tend to improvement?—Yea: I believe it 3230. It is familiar to everybody who knows the trade that there must be an immense amount of energy wasted in having five or six or a dozen different men distributing milk along one terrors of houses?—Xes; we all feel that. One person wants milk at 7 o'clock, another at 9 o'clock, and another

3231. Would it be possible in Dublin to do something along Continental lines in that motter-for covthrough a form a co-operative society, or ring, or give it whatever name you like, pool the milk in a central depot, and deliver it is larger certa?—I den't think you would ever get the trade in Dublin to con-sent to that. I don't believe you would.

2022. Another point that has some before us is the selling of wift in the street. You mentioned it your-nelf just new, pointing towards what is un-combinedly a very great risk, that is the diseased now from on uninspected district in the country, whose nilk is seld from our survey to another to fill up a sheringe?—That takes place. 8688. How can that be avoided?-I think this is a quantum you cannot interfere with. It is like every other trade. The butcher has to get joints from his neighbore when he runs short, and frailteen and

others have to send out to complete an order when 3834. The Charasax.—Would not the uniformity of the similarisation of the Dairies Order largely minimise the deaper sciency from that? Supposing was nigidly enterced in every district in the Order was myony entered in every masses in which milk is produced, would not this logoly manimum the danger to which you relaw?—I don't know. I would not like to give you a direct suscess to that. I know a one'nd present where one of the to this. I know a one-me pration waver one as most consciousness men, running one of the best slope in the offs, has been prosecuted for setting adul-tessive milk. He woult to his most and saled like did be not put the noith direct from the "drum," where all the noith is milted up together. The mass

get bis came and the nulk was recasured to bim, and in the course of the delivery of the milk there was a sumple taken. Sir Charles Common said that there in the course on me activity to the mile ower wors a sumple taken. Ser Charles Chammen mild that there was, I think, 21 per cent, of added water in the milk. A sample of the milk was such by the worder to Mr. Moss, I think, soil Mr. Moss give a certificate to the voys same offers. The worder cent to his men, and spoke to him shoot the milk, and told him that he must have added water to it. The new densed doing this, and made off. The propertor, owing to the action of his nervent, is hable to loss his character. Of course, people never look into them things when they are the charge of challention in the Peos. This

City of Dribba. 2235. Mr. Wilsons.—Zakrag your knowledge of the Brade se whole, do you know whether mote or less made se a whole, do you know whether mote or less made as sold in the steeds now than there was treatly or librity years ago?—I think there are more agree carrie of the cool deliverage milt. Then see more agree per course shouls with milk: They come in from three or four action which milk: They come in from three or four miles outside the city—from Blothreck and other

3336. Are the Dublin population drinking more mill than they did?—Well, I don't believe that the working classes are, insurant as I used to do a lot on the St. Vincent de Paul yields, and in going recent to the

Mr. Jessen Haren, 6th Jenucry, 1912.

poor houses one would see "cupped" milk. That is

poor antennet of the control of the

8237. Nor did they twenty your ago?—I don't believe they did. 8238. You don't think there has been very much share in their respect?—No.

change in that respect?—No. 5259. You must have bandled a great many hundreds of cown in your business?—Yes. I keep between ferly and fifty mileb cown.

1200. You have seen the average of Irish shock?

—I would not say that they were all Irish shock?

They are imported stock and crossed.

(201. I mean the stock that you could buy in the Irish market. Of that number of ever that you have soon yourself by your own besteen, you said, I think.

tabercalous?—That is a difficult question to answer without a dispatcie.

3345. If most recognisely toberculous?—Tos could not recognise toberculous without a past sorters

Side. I am spenking of the ones you can recognise.—
I do not think you can ecceptive any. You major have a suspiciou.
3244. I mean the obviously ill annuals?—No see planty of them in the market, but I do not pay any

statemino to where they come from or go to.

\$456. Pis B is this way, have you, m your
experience, sufficed incircus losions by cover dynagrammers, without the properties of the state o

her, and she was cott to what is called the "Paraffin Oil."

1246. From the pant of vice of the chirymen, the tolerentees over door not appear to be a very scritces or content of Sharkett look. "To poor man who gives 428 or 250 for a cow it is a financial look.

2504. You had only one is all your expitions!—

5247. You had only one in all your exputinces?— Yes, but there are a great number of people in the city who see not able to buy the best elass of own; they buy a new of an inferior class, and very often the inferior chan is more likely to contract tuberclosss. 5240. Prof. Marvox —A class of one, in other words, but compose class has get and oft—Yes, that scenesor

3848. Pec. Merrey — A clear of core, in other words, that commone else has get rid of?—Yer, that semeone else has moved on to the city, as the headiest way to dispose of H. S840. It? Witness.—Would you be in favour of the City Authorities going outside then own near in order to see that the milk producer who are sending.

supplies to the city were on lines peculial to those in Doblin?—Yes, I think it is essential.

3200. Yes keep your errs sens in a byre in the city? —For about five months in the city, and then I send then out to my farm in the country from the middle

them out to my fam in the country from the middle of April to the end of October.

3231. While they are in the city they are excelully imposted?—Sometimen twice a weak, very often three times a wook.

3332. Does anyone follow you up when you go out into the country No. 3233. The country No. 3235. The country authority lets you alone, and the city enthority does not follow you?—No. 3234. Things the broadest possible rice of the trade.

ability would you consider the other to see the see that see the see that see the see that see the see that see

the farm in the country, would it be say great headship to keep them there all the year?—It would; I have no accommodation there for them.

3358, Supposery you had accommodation; I am not spatising now of your cows personally; the question has been missed, why would not this milk be reclaimhas been missed, why would not this milk be reclaimoutside the city, and it is from that point of vow. I can asking the question—Tow would have be content with a let of men who iske no nativest in your business. We find that executy zero are not good militare. 3397. If you had a form where you are producing your own stuff, would you not have a sampler of weekers there, and the varietres' write be justified—don't think there, in the varietres' write be justified—don't think

there, and the workers' wives to milk?—I don't think the workingmen's wives in our district would attempt to labour cought in the harvest three 2358. Would that be the only objection to producing

milk in the country—the difficulty of not being able to obtain the labors; would you get labour as the chief objection.—The casting of the feeding staff would be another objection.

coperators—rate carting of one focusing this would be mether edgection.

2009. You have to easily the feeding in?—No; we fill a key here, which holds a hundred tone, in our word in Ook street, and when it is casen down by

nothing in the evening, we get them to lead.

200. Still it has to be earted in?—Yes.

200. The stoff you cust in is the bulkiest feeding?—Yes, it is the lightest. We overe put a son of hay on our cents. A lead of grains would weight

resumpy—i.e., it is the injutest. We never just a sucof hay on our earte. A lead of grains would weigh shout 30 cmt. at more.

3922. Taking your key and mangelds, that is wey bulky, heavy material. It has so be costed in, and the mature easted out. From their point of view, one would imagine that it would be butter for the crow-

motione eseted cot. From this point of vice, one sould imagine that it would be better for the evolution out and east year milk my—Although my from its avery neer plose, it don't think you would like to remain out and east year milk my—Although my from it would like to remain these for the winter.

(Be to remain there for the wilder.)

3983. Why—In it is very beak place. The building is one of the oldest to the County Doblin. It is over 500 years built. It is every cold in the water times. I don't keep a nation case, and the driving of houses in only out would be anything but pleasant.

2044. I would nather get you is look at the native from this pract of twee of darragen as a whole, and not from your own personal peans of view. Yee, poles night not be planause to view, is, but there are posses night not be planause to view, is, but there are leaser here one either where the cultir produces have been part out, and the tendency with all those regards have been part out, and the tendency with all those regards the school in Delihi at that happened?—If we had to do st, we would have to fall into the with the regaltions, they you would never make me go out there. "30% Taking the table as a whick, what would is

the instanting to which the irrade would be exbyected, would it reduces the quantity of milk topplied to the city—The expense of except steem believe or chaff cutters would be very heavy.

3506. Have you to excet them now  $^{3}$ —No.

3507. Why have you to excet them in the country, if you have not to do it in the lower, is it in con-

if you have not to do it in the form; is S in comnection with the production of the emper-I would not say it was in connection with the production of the cope. Our genting farm gives no enough to do. I am willing to answer yor, but I cannot answer you, as I cannot apark for anyone but myself.

2005. I am not adding you the question because
I think that it should be done, but nother to get
as argument from your own point of two getness as
a regiment from your own point of two getness as
a significant from the should be made. If a not
take the state of the should be made. If a not
take the should be made to the should be made. If a not
take the should be made to the should be made. If a not take
the should be bond to consider as in the raty. The sales
wentle be load to the consider as in the raty. The sales
wentle be load to the consider a proposal to the should be load. Our rates have moreous. For a few
improvemental I made they pilled it so.

0209. The Crameax.—That was done by the Valuation Department?—The roles will go mio the Countil. 8700. Mr. Charrista.—Would you pas more roles in the learn than in the country?—I do not think no, but if you did, you are more conveniently shranded, and you can get more value in the only than in any market in Irritant ber feeding step.

M. SZII. There are bound to be many dairyment who buy hay and stown and who reided in five country. They can buy the receive five five country. They can buy the coeffing stuff in the country?—Yas, but they sugglet set get stuff in the country?—Yas, a better a buy the country. Alberten. Flamagor, and be was officed flow is to be remaded buy, very sett, and be well not give in the base if lying there still.

379. I heally think that is an argument?—Too.

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arral. Supposing that the darrance were all certains, and I was producing they said sizes, I swed bring it where they were. World it he a great incorrections supplying your contents of the world, because they would be a long say to used rolls with ages, and you could not be a long say to used rolls with ages, and you could notify, our laids here rolling side to said different rolls, and they keep them cross sed tops draw. That sail they have to do.

is all they have to do.

1874. So that one dimensione, if you leved in the
econtry, would be that you would not have as good as
poperators of teeping your eye on them. From this
point of view I can as an asymmetr for lover groduction, had on the other such.—We have no
any of the control of the control of the control
with our neighbour. I supply meet of the large
statemer, and I suppose I have one of the best private.

categor, and I suppose I have one of the best private cuttom trades in that Gittant milk was coming from the country at 10th per pollute—Lot, Cherres are changing at the present day 10)d. for it. It is not delivered; you have to pay carriage. Getto. Would it pay you to take milk from the sountry

and redshift by the tot pay Ind. a gailary—It would all depend on the distance that the milk has to come from. Milk from a long distance will not keep, and in any cases contourned on any cases contourned on the stand over angle. It is returned it is impossible to do that. In our distance all the feathful of course, specific to the proof distance all the feathful of course, specific to the good contourned. 4877. This, of course, species to the good contourned.

1427. Thei, of course, applies to the good customms, too what shout the rilk that is supplied to the working choice?—There is out nearly as much supplied to them as there should be. If they drank more suffit they would be hetter off.

3276. Do workmen who get 25/. a week use such milk? Have you outdoorer of that kind?—No. 2790. Do you know it now milk parayons oner that that chas?—Mr. Young will be here on Tuesday and grey you extlence on that.

2000. You referred, Mr. Hatch, so the fact that the critising qualities of the cattle were not quite artisticates, "Yes."
3691. Have no kept records of your milk yields for many years"—Nee, all our milds cown.

1686. You can tell how much each cow produces?— No, not each cow. 2286. Can you give us from your books an average

3289. Can you give us from your books an average of the yield?—It is may see that interages the bounces. I only do the autisale well. 3289. Do you think I could get that information?—I do not think you could get the average yield of earlcore, but I think my see would insultate you by giving

tow, as I think my six wears manners you by giving the bells of to many cown.

128G. How many years outd he go back!—He is only 27 years of mgs, and be could not go back very for.

2008. It am nerry, because that would be the best preed of the present state of miles cover in the country. —I do not think you could get a single man in Deblin to assume that quotient. 2007. You are prepared to state positively that the cover are not militing as well as they did twenty-five or thirty press ago?—They are not.

or thirty years ago?—They are not.

3288. How do you account for that?—They are not the same bend.

3399. Not the same strain?—No, not the same strain.

3899. Not the same strain?—No, not the same strain, 3290. I am not staking of the corespoiled Augus and Hersthrids, but of the Shertherm—thry are not now the same strain?—The Shurtherm is not a good million, 2021. You brink that is in connection, with the

beneding?—Tes.

3888. Are the cown better looking?—There is an inspensement, but unfortunately the English and Socialish buyun come over here on Wednesdays and get told the cubic laure, and prechase the natile before we

Soldish buyers come over here to Wednesdays and give the due to the larm, and purchase the earlie before we sat see them.

2426. Fro. Merras—That is Regal?—Yes, and skey are supported by some members of the vetorscays staff, because when we write in them they did not seem to once about it. You would wont to be there from 2 or 3 o'clock in the corrung until 8 or 9 o'clock

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Bibl. They are pathing the heat sower—Thus yes relating the challen. And they are able to pre-marie than we say, because they one gatting a believ pelon for thirs milk. They are doing that sow near the former. Op to feety years ago only King and the Exitus, would be tring them to the London markets and Lingbellegues. In the contract of the Condon markets and Highwelphers.

ind Hagishayen.

250. Do you not think that the cattle must be milking well when these people are so anxious to get them?—They could not get them, good or had, in Kugiand. You would be surprised to see attile longist in Ireland and sold in England so Regists stoot, and cattle in the country of the country

in Tribard and sold in England as Regular stoor, and gelding £5 or £6 more for them than we would get in them here.

\$356. As any male, it is your opinion that the cown you are getding now are not justifug on much milk?—

Yes.

397. You referred to a neighbour of yours whose sulk had been sampled and not found up to the standard?—Yes.

standard?—Yes.

388. Was that morning milk?—No, I think it was evening milk.

3899. Do you have your mile tested often?—Yes.

over, by you are you'r thin to seed oren't - i.e., the happelers step the case and take amplies in the happelers step the case and take amplies in the happelers of the happeler

morning and evening milk?—I do not know the emet difference, but there as great difference in the fatts. 800. You get the same price for both "-I'er. 800. One is more valuable than the other?—You. 800. In the meeting you get your jumpsoo a

17 SOA. In the meeting you get your foreproce a d quart for 3 per cent, and in the evening the fate see often 44 per cent, and you only get the same money? a — Yes.

3306. Has your made taken noises of that healtheap ear on a educated close of seco. Yety sname, adhatesh will off, see not sold to write there own that hear as the contract of the second sold sold of the second sold sold of the second sold of the second sold of the second sold s

what to do with her.

3806. Mass McNerra...—What would they do with her?

—Send her to Scalight.

3807. Mr. CASTREL...—When a person of your own
standing is connected for adding water to milk, it
is a very serious matter?—Vas.

1009. Do you think the fact that you are listle to be so seconed would permat men from going into the trade - Tes. 3500, And done it previous them, as a matter of feel? - Yes.

3310. Now, the milk that you had tested might very possibly laws under 5 per cents of fat?—It might. 3311. Without any fault of yours?—Yes.

Only 1 When the question to him Charles Cameron, of the dairy times to any that the milk was different to the dairy times to any that the milk was different to the dairy times to any that the milk was different to the system of the categories and the milk was different to the size of the categories and the milk was one up to the 3 per of string that the milk was one up to the 3 per of the milk was one up to the 3 per of the milk was one up to the 3 per of the milk was suffered to the milk was the suffered to the Press. It assure eases all the ordinates for the procuration to guidanted, while the ordinates for the procuration to guidanted with the suffered to the milk was suffered to the

got ordance of the defendant as never given. A full repwe of the complainant's case, conscilence half a column,
given.

Soli I are satisfied of this, that there is me
any postuced in Dabbin not up to the standard, and this
out not due to the desiremen not to the coses, but to it
full that was an collider to rule.

are supported by some members of the veterous years of the state of the veterous years o

3534. Under such conditions is it well proved that the marning milk may be under 8 per out, and the evening apply correspondingly richer?—Yes. We had some English delegates over here, and I beought them to some yeeds in the city, and skey and that they nower saw a local of sails too qual the breks that I showed them in here of easils to opail the breks that I showed them in the yeek. I may say, boo, that our dailess compare favour-bly with those in every per of England. I have been in ell the clure cathes not deves of England, and our casewhele and milliohops are, in a great many metances, superior to what they

there, except in London; and you have no one here that will go to the expense that they do in 3015. Pred. Micross.—We were told by a ferrors wittens that there would be no difficulty in burns nows subject to the tubercular test; in other month that you could go into a murket and purchase cows

that would be guaranteed not to re-not?...I do not believe that. It is not possible. I would not like to 3316. The Charmens.—Would there be any difficulty in subjecting the cown to the test?—There would not say difficulty, but the necess would not allow it. We need not allow the authorities to apply the test.

8817. Mr. Coursens.- Even if you wanted it, there is no convenience in the reselves to have it denn?-No. 8818. Then, supposing these cows were tested at the original form and the original form and the original form and the original form as the original form and the original form of the same new at all?—No, that is so.

3519. Have you say difficulty with your milkes in making them wish their hards and put on oversila? Note in life. We supply the oversila and get them washed, and we have convex incidence. We find no differity. 3720. Have you had experience of concrete floors for your coses?—Yes, I have all concrete floors and your cows?—Yes, I have all concrete faces and channels, but they are not whet I would hike to have.

8321. Have you heard many compliants of the

3922. Still, at the present time, yee could not affine very seach skew for the purpose?—We have our own

1933. Mr. O'Berry,-You move your cattle to your own farm from your place in Carle street?-Yes; our

3824. When the could are in town the milkers are

3025. And when they go to the country you house them  $2-T_{\rm FR}$ 3838. In that the way that most of the people deal with their workers?-Yes.

3827. They have accommodation for the milkers?— Yes, that is provided for in the setting of the land, When the audioneer is setting the lend, he tells you

3328. So that there is no difficulty in providing water for the milkers to keep themselven eleva? The men-bring over a large one of water for the pirpose of

cleaning their bands after milking each cow. 3329. Not before milking?-No 3530. They may weak them before, too?-Yes. After

3330. Inty may went must other, nov-lev. Ance they milk each cow they wesh their hands and dry them on the course towel. Dr. Browne seal here, I think, that they moved their hands in the water of a I do not think the humblest man in the trade would do such a thing. 3351. That was the reason I saked the questions, because we have received statements that when the

cows were in the country the milkers very often had no facilities for keeping themselves clean, and slept in a drieb or under a cart?--No.

8332. Prof. Marraw. -- But the accommodation will vary in the different places; some may be more primitive?—Some are not what they should be, but the meiority are.

3335, Mr. O'Barre,-You said that there was over position about fifteen years ago, from the fact that the recumeries sometimes had an everplus of milk and sent it m and sold it as lower prices than you got?-

2334. What do you mean by eresmeries having up overplus; do the creameries sell milk?-They do. we send a wire to Cleaven, or others, for milk, we will

2035. It is that class of 2005. By is that class of morenery, Gleeves for instance, that charge 191d, a gallent. Yes, and we

have to pay carange as addition. 2000. They must make a reed deal out of it in that

one, because in my own district I was offered, as a gress indicamenta, by one of the factory people, that I would get ful, a gallon this month, so that if they are selling it at 104d, a gallon, and we have to pay astrings, they are making something out of 147—Yea. astringe, they are maxing concetting one or it. As.

I saw in last Monday's paper on advertisement offer-ing pure new rolls delivered twice duly, at 240. a quart. That man may have a surplus of nells, but to quore. That man may have a surption or many age on keeping up the supply of that price for the winter menths, he could not so so. There are a goest their francis and acqueenturees, and they sell the surplus milk. That is a thing which interfered with

3337. I imagine that is so very much round Duh.

3338. Miss McNutt.,-Do you have any special arcasesment in very hot weather to cool the resulty on the smaller form? I do not think so the wills had no means on our furn until we got in the Rath-mines water. We have a meter, so that any outer down after milking.

3339. Mr. Wilson,-To what temperature do you think it should be received?-It would depend on the poverney it has to my 3840. Do you use too, for matsuce?-No.

3341. So that the lowest you could get it to would be to the temperature of the water remning through the spip?—Yes.

3842. Ludy Evgago. What is "copped" milk!— It is manufectured by Chorus and others. It is separated milk that is condensed, with a very large questite of moltages to it.

4946. What was the cost of games to 1887, and what is the price now?—In the stramer, in the city, what is the price nowr—in the nummer, in the car, they would be very cheep, and in the winter it would hapend on the demand. I have known the price to go up to In. 8d. a harml, but in the nummer they were sold for fourpence or fivepence a barrel

5844. Mass McNama, Some evidence has given before the Commission shout the typheid our dent do you know whether it is customery to make my inquiries from the darry workers whether they have bed typhend or not, or any transmittable disease." -If there is any stokeness in any of the milkers' homes they have to report it to the Medical Officer in the district, and he reports it to Sir Charles Camaron and he sends out to investigate the motion, and very often sends to the dannes to have the milk destroyed milk shops, measured as a nurse or cayour who may

be coming from a sensitions come could come in through the rulls chep, and the ruzzon are likely to enery discuss with them. I do not believe that malk vessels through the stored in the shop. 3345. You would not be satisfied with the elemen of the church being served on m the shape?-They should be removed when they were electred

1046. Do you know if any malice is ever actually isked if he has had typical before Le is employed?— 0047. I sen speaking with regard to typhced carners principally?—Yes; it is like socilation; there are socilation corners, too.

2348. The Causanie.-Scientific witnesses have incould not citation—security whose is now to found us that it is possible to determine whether or not those organol is the handling of milk one what is known as typical causins by the application of the Wolds took. This took is made by miscature is small Widel tost. This tost is muck by extracting a small questile of blood, which is subjected to examination that that if this tost were approx to nouse access with the male trade in the city?—I do not believe it world, and I think that the nen would be only too world, and I think that the nen would course. The near in the trade are just so mixeus to facilitate this inquity as the members of the Commission themselves. \$540. I quite understand and appreciate their feeling, but I just want to get your opinion as to whother or not you thought that the application of

such a test so that would be regarded as arkeome so 3550. Do you think, from your own knowledge, that

3331. I are not dealing with that report of the ques-

you say knowledge as to winther or not more or less milk is drawk per head now then twenty-fire years 3332. In your oursen the consumption of milk has

rather increased than demanded per head?—Yes, 2003, Yes distinct does not deal with the working population?—No.

population?—No.

SSGA. Lard you told we you are not competent to
neaves the quanties regarding the consumption of
native the quanties regarding the consumption of
MILE by the peoce element—Yes.

MSGA And that we will get that increasing from
mather witness?—Too, been MY Yeaus,
SSGA. Prof. Micrian—Have you get any copy of
the thress up by your Assessment—No.

3317. You have no pinceed in your byres telling the man what to so which is second by your Association?

be any difficulty about getting the private addresses of all the employees registered, so that it might be possible for the Public Health authorises to well the 33.99. I do not suggest that they would agree volun-turly, but if it was made mandatory?—Some of them are very burnish man, and their bonus might not be

2000. You see, the larger interests of the public outtide might demand that certain conditions abould be observed, and that the weakers should be absolutely free from the suspected of having contagious disease in their humes?—Yes,

30H. From that point of view, do you think there would be any serious opposition to the private addresses heing given hand.

Sect. There is a certain amount of opposition to most referent, but beyond the usual feeling regarding new obligations you do not think there would be say 3585. Lady Svmann.—You spoke of the Dunish foresment giving £5,600 a year to dairay the expenses of applying the telecronin test?—Yes.

3354. What is the procedure?-I believe that a

\$865. The Coursement-That is a Government unmium?-Yes, out of the £5,600. 3865. Lody Everator.—The owner has not to pay for the test?— $N_{\rm C}$ 

8867. What happens if the cow reacts?-I exmest tell you that.

\$1000. Do you think it would be possible to get in-fermation on that pount?—I think you will get all the information you require by applying to the Minister Mr. Camerona.-You would get it from the Denish The Consession then adjourned until Monday, 8th Jonuary, 1912.

# ELEVENTH DAY .- MONDAY, 878 JANUARY, 1912 The Counsissioners met at No. 5, Upper Captle Yord, Dublin.

Present:-P. J. O'NEILI, Esq. (Chairdan); Lady Everard; Miss Madgarry McNella; Sir STEWART WOODHOUSE, M.D.; ALEC WILSON, Esq.; DERMOD O'BRIEN, Esq.; J. R. CAMPHELL, Ksq. BSc; Professor A. E. MESTAM, B.Sc., M.R.C.V.S.

S. W. STRANGE, Esq., Secretory. The Right Hon. T. W. BORRER, M.F., exemined.

#### 3866. The CHATHMAN,-Mr. Bussell, you are, as we or two as to the scope of my evalence? Then I will

8870. Being fundfur with the administration of both different pasts of the country?-I am. 2071. And process are presented from time to turn 501). And reports are presented from time to tune by your effects regarding these conditions?—That is so, as addition, of course, I go through the country o greet deal myself, and am brought into contact with the

3879. Touching the question which this Commission has been reported to injurie into, have agends has been reported to injurie into, have agends instances been brought under your observation in which bendites have econderned of energy of milk?—Tos. 5578. I see that is County Limitick your attraction. The I see that in County Limetick your attention have rather (possity drawn to the particular has been rather foreibly diswn to this particular searcity -You. Will you just allow me in any a world

corned to-day, I divide the community into these classes. First, there is the well-to-de class, who have teally no difficulty is required to stiff supply; they have either them own supply in their own hones, or they have alreadance of money to provide it in the codinary way. With that class I have nothing to find.—The seemil class is what we cell the dependent close, namely, all the instance of our public metals. teams our poorkouses, our saylams, end all our prisons; these bave adequate supplies of milk, and the Shelbecause of the hospitals of mink, and one overeless that the regret is not only adopted, but she that it is up to a certain standard. It is what I may call a posterior standard. It is what I may call a posterior simply. The third class, which is the class with which I are maily consourced to-day, is the class which includes the labourers in the country, and also that long class.

So for an any existence in corn

not observe classed as labourers, who are compelled t make ends meet, and who have a peetly still fight o still fight to ited image diotised by the University of Southernoton Library Diotisation Unit

to on. All that does have past difficulties in superionality applies, and anovae, the Contraction, if you will be milk applies, and anovae, the Contraction, if you will be the mouth of longust her! I was marked by the Late the mouth of longust her! I was marked by the late the mouth of longuate her! I was marked by the late that the late of longuate her is the late of late of late, at you loose, at which the schemes we proposed parties to the Contractions, whose the mortiling work Lock Realy in the albest, not between furty marked with Lock Realy in the albest, not between furty marked to the Commission pressed. The colleany year; loss before that who contract space, the Commission year, the before that who contract space, the Commission pressed in the Commission pressed.

was skill. I food a kepy metric of the transitive in the property of the control principle of the control of the control of the control of the principle of the control of the skill of the control of the control of the control of the skill of the control of the control of the control of the skill of the control of the control of the control of the skill of the control of the control of the control of the skill of the control of the control of the control of the skill of the control of the control of the control of the skill of the control of the control of the control of the skill of the control of the control of the control of the skill of the control of the control of the control of the skill of the control of the control of the control of the skill of the control of the con

Does you it was quite impossible for them, as the possible them, so all on the Coursey Interesting the possible them to the Coursey Interesting the Course, and that for the receiving sender of the year of the Course, and that for the receiving sender of the course of

of Bath Molt, see on the many township it was make, and with the badd necessities of the case straing likers in the face. I saw if the solution was passed by the Committee—I refreed to gree may opinion upon it, as it was not officially before me—but that if it was possed by the Committee and was early so the Department, the Department would deal with it.

3876. The Commence—Bath we have been also recommended to the commended to

5870. The CRASCALL — this is nature been associated by the deposition?—Thee, I have it have; the percent of it was prestrictly to arrest the moony absorbed by the Department, or divers the moony.

5876. I understood the purpose, but what I want to know is, did those most themsalves advestly writte a scheme which would combbe the Committee to country with their request?—Ob, yet; I will band by which there were the country of the country o

scheme which would canable the Committee to consiye with their respective Ob, yes; I will hand be in: 3977. I winth it would be rather interesting if you read the min features of it, but belong recording to their you might inform the Communion which innovated manage was devoted to the purpose of outless prince which they wished to direct to their scheme?—I had better read the softone here.

"The following is a deal of the scheme for providing Kerry own a prime for the backlapf flit; scheduler Kerry own as prime for the backlapf flit; scheduler and plate in the County Limerick, instanced by the Cromn Lund and Labour Accountings, and opported of at the Labour Convention hald in Limerick, and adopted by the Cross Districts Council and Second of Good of Limerick Agriculture Council and Second of Good and Limerick Agriculture Concentrate at their work working, when they size consolering the scheme for 1911 and

Com 1.—Thirty-trop, milth Kerry come for the best-Lord Kinty-trop cottings and globs in the Country, bald worker the Roral District Councils, divided to the State of the State of the Country, and country Lord Country, and county Literature No. 1 Country, for cours Newtonia West Council, five cours, Markhaule and Gill Council, five covery Lippenry No. 2 and Mittelaistown No. 2 cours Lippenry No. 2 and Mittelaistown No. 2 cours. 2004, https://doi.org/10.1006/sci.2004.

"Class 2.—Eighteen mileh Kerry cows for the besttopy eighteen ordings and plats on beld vades December Cornells, valuation nat to cuseed 88, divident as the property of the control of the control of the Berry cows; Kressalth West, three Eury cows; Lumeiri No. 1, three Kerry cows; Eistheads and Oliatees & serry come; Tapparry No. 2 and Michelstown Research of the cost of the cost of the cost of the Probable costs, 4239. Finite probable cost of both channe, 4230.

They had fown a certain number of smallitime. In I have that it is not than it is not that it is not to be a substitute of all the laborate for pend due to the substitute of the laborate for pend due to the laborate for pend due to the laborate for pend due to the laborate for the laborate

The presence obstaclation was the about survey as the recognition of the control of the control

make light of the ocienty.

378. The Charman,—Was any oftenge made by any
member of the Lamerick Committee to controver the
allegation made by members of the departation with
regard to the occuraty—I interded to deal with that.
I have it on my notes. The eletament of the blockere
was accomised by rever number of the Committee.

30Th. Without discord.—Without discord, and cropytice I speke is destinated there are a strong case of that the laboraces believed extremely seed. I have no distance to the strong of the strong of the conting of the strong of the Commission, and from the poor rough steading of the become a very section department of themsers with upon the Lettored Read District Cornell with the some compilation. There were the seed of the strong of the strong of the strong The see made was just an example the latter that the The see made was just as managed the set that which

The name made was year as remarkable as that which the Linnesick loborance had made. The introduction to their resolution is to the following effect... "That we are of opinion, after long and weary walking, after the Eopers of various Commissions.

waiting, after the Belperis of various Commissions, and the recommendations of emmant authorities again and again, that the time has arrived when consoling positive and substantial and real shall be done to provide the children of the poor with the first necessity of life-supply of mile."

This departs to made a more heroic proposal, that the funds of the Donartment should be arrested outright, and that the Department about to arrested out-right, and that the Department about consent that the rate should be used for the purpose of providing milk for the laboriers. Well, of course, on elected body, the labergers here were before as elected body, and these farty members of the District assumed in this the manual of the preparation of the open agreement and preparation of the state of the control of the state of the sta will in their resolution "the hirmle hirms of the soor." I can been to-day in my official aspectly as Vice-President of the Department to my to this Com-

Department, and I drains to amores upon the Com-These are the two raid thestrations I repose to give.

1890. In this perticular case to which you teler, no scheme was provided or submitted "-No. 3381. It was simply a drestic demand that the funds what had been shoested should be serveded to the particular purpose?—Yes, and them seventh proposal yes, "That the County Council, should they find legislative sametion is measuring by they find regulative successor. It is a superior the suggested change, he requested expertly to reserve the produce of the penny sate in a separate final, and the result of the Fifth Supply Commission upw astrong is asted on." You will probably see now

3880, Before we pass from the Limmick case, I should like to know whether the description alleged than any way responsible for the somethy to which a great deal to say to that. But endealtedly the

3384. It is expensive?-Yes, but you comput scoop or mile

1885. Oh, that depends?—May I pees now to the orban districts. I think I have said enough to show 3866. Has the report made by the Lestown triet Council been convered to the Conveittee of Acts 1987. What I wish to know as this-whether the sympathone feeling towerds the seltence as was mani-fested in Limenta — I have no intelligence from the County Committee in Kerry at all.

3098 It is possible they did not meet some? - This was at the Burst Destroy Council recetting. The CHARMAN,—I quite follow.

3389, Ledy Evision—The Channel his saked the question I wristed to sak. The labourers, restead of applying to the peoper quarter, which is the Con-mittee of Agreements, applied to the Bural District Of section, they were asked when the resolution was adopted to held up the funds. The Roral Dictaint cil to hald up the penny rate until the Milk Commis-SSOC. I take it, it is the County Council that strikes the rate of the Committee of Agriculture?—Oh, yes; but I think the Dutairi Councils have actionary in the

3000. The CHARGAN, Of course, it is quite right to assume that the District Councils represent the local

feeling, and that the County Council selmonicaling stance, and limit the County Council sektoswiedges they sight to speak on behalf of the labouring inte-yest?...Of course, you know that, Mr. Chairman, much belier than I do. I can perfectly certain that if the 3392. Lady Evinana. At any rate, they went to the

3200. This Council non only representative of Los-500(1)—1cs.

7004; Mr. Cauvent,—Suppose these laboures some before us, and, so deols, they will, with their scheme, incre we are considered to the complex with—1 toys or some objection to cauve that. If the Limetik causes before me, and the Connection approved it, and the Connection approved it.

5295. Legally you could not scortism of 9-No. NOT. Legally you could not scorned at the Activ-2006. It is not one of the purposes of the Activ-Not it is not one of the purposes of the Acti-The CHARKER.—It is no well the ground sheetd he 3307. Mr. Convents, Something might be done,

but it is quite clear our money cannot be given for that purpose "-I think the Lutowel de putotion went on grounds that our rate should deal

3388. Was anything and whether they could keep Kerry cows if they got them, or was that left to she Department?—Everything was left to the Department. 5382. What was the date of that?-- It was December 3999. Mr. O'Bages -- I gether that the money that was to be diverted in the case of Limerick for the puryou to be diverse in the case of atments set the pur-pose of giving Kerry come was obsoly devoted to the purpose of giving prizes, but I suppose not to the same amount?—Oh, no, they demonsted a much

> 3400. My. O'Penry.-He mentioned the sum of £350;

3400. Because I suppose if it was the same amount the Department could scanton the giving of specific proces, or snything of that soy! Mr. Campbell safed profer to deal with the accounts sometime when it belows it. To my to people like these what can be done and what countof he done in a case like this is very difficult, and perhaps on moving thing. I sold the mercalesis of the Committee I would not take the the memory of the committee I wount on the me responsibility of relating them from decading their own business their, but if it came before the Departzernt I could not sanction it.

need I could not anothou it.

3402, Mr. Covermen.—But new it comes before us,
before it comes before the Department, and at we notice the commondations we may be vasing our could be commondations of the common at that the Commission feedly I is not appearant. I that the should be done. In the first place it is more easy to most a familie of milk My giving thirty-two coses to a place like Linearity.

3400. The CREMMAN,—That would not solve the difficulty?—Not at all. I mentioned these two cases, not become I approve of one or other of the proposal and dail with their when they come before me—it will deal with their when they come before me—the beauty when they come before me—the beauty when they deal evidence of the character of the character of the comments o 3604. Mr. O'Berne-Can you suggest how the evil cold be most?—I am going in my evalence to suggest

how it can be met if the Communion will allow my to leavel my sou road.

The Chungash.—We only nont to ask questions di-tectly bearing on the particular point Mr. Ressell in silering to at the moment; otherwise they may be everlooked. Rt. Hop. T. W. RUSSELL, M.P.—8th Jounery, 1912

600. Mr. Wraster—Are there for cases you hape you. Mr. Rassell, andpia of others—Are, supple-1800. Samples of other complaints that reach year! —Yes. I am quite size these preposals of the latencess see gaing to run even the whole of the South of Instant, where they are organized, and that the same of the same of the same of the same of the 3607. Are they samples of complaints that reads the Departments—Thoy are compliant complaints

the Department?-They are samples of completed reach me.
3408. There are many more?-Ob, yes

360. Ta, Osakuso, "Mil yan nor preced to the mine instructor—The first similar J gav as in the mine instructor—The first similar J gav as in the Miller of Mille

benefitely to the poor. Institute in a coursory damping, There are no reconsists in Tallingore it of the poor of t

The atomic other distillers of which I have personal experience is that of Mattery, it he West of Databut. I had a good deal to do with Akkenry. It is not a final to the second of the

the control of the second of t

propie; and I thank the State is mutthed to stop in when they receive the notionation which they will receive from this Commission, and try to find o any one. Mut. The Commission, and try to find o any one. Mut. The Commission, and try to find on very one. Mut. The Commission sheet by the distribution of and but me say is region. Moreov-I take who complessly known—that are many cosporate in a met a very plassout price, but region a fixed price of the far myren having our respondibility to deal withthe state of the complex price of the state of the far myren having our respondibility to deal withthe the state of the far myren having our respondibility to deal withthe state of the state of the commission of the state of the far myren having our respondibility to deal withthe state of the commission of the state of the state of the far myren having our respondibility to deal withthe state of the state of the state of the state of the far myren having our respondibility to deal withthe state of the state of the state of the state of the far myren having our respondibility to deal withthe state of the state 3413. Would you be good enough to tell the Communion what shains has been endoped, at the pumpose of solving the differently to which you have referred in Abstrary? In it is solven a spin-called to other places strandard suitables, and be the proposal to the Company of the Co

344. The Bettles Commissioners, I many—world 1, 344. The Bettles Commissioners, I many—world 1, the two brights. I attend specification between controlled generators, and I and is the deposition less of the commission of the second of the commission of the commission of the second of the sec

and thops.

3415. Mr. O'Brans...-Those plots are worked and
fauned by the shopkerpers and unbalatents of the
town't-Yes.

3416. Mr. Cauresaa...-I think the assumption is very

brank—Next, Courstan.—I while the perspillion is represented, that does brown similarly intended in the discussion might be unfinely dood with?—Yes, and the state of the discussion might be unfinely dood with?—Yes, and the state of the perspillion of the state of t

the miximity can provided this reason seems a monthly of the control of the contr

the control of the co

DOLL | who columns in it was proposed was consistent of the problem in this case might be applied.

Mr. Guerraria.—In places where slumber excusions prompted?—If you wait until I come to my proposals so that need to come to my proposals so that need to come to my proposals so that need to make the conditions of the proposal to the p

Add, The Crumwax—Too have given lore sense of recell distrols on the of related "Yes, and I have germ lines as types from my own horselfore. Now the country people have a heating in the country people have an heatints in stepping the country people have an heatints in stepping the country people have a heatints in stepping the country people have a heatints in stepping the country of the count

bed, he whose creations are not in their fundamental communities the resulting term, and marked the companion of the control o

Held, The Conserved all, part agreement we shall be a proposed on the proposed of the proposed

where the state of the state of

Continued to study to the study, to the presence of the continued to the study. It was the study to the study

Description of the first Law partial research growing and the first

"Hetum to, the period, life January, 1907, to 28rd Septendos, 1909, abstrate the certains of the mile deflected at a number of eccentries, when the supply was examined by one of eccentries, when the supply of the period of the

in elven verrels	found in condition ferred to in Cal. 1.
per cent.	
200	93
95 to 99	150
50 to 95	141
80 to 90	100
70 to 80	188
60 to TO	69
00 to 60	26
40 to 50	18
30 to 40	6
20 to 30	4
10 to 30	18 6 4 2
0 to 50	1
	801

with 13° "I and, "'Ob," the surveyed, "I have a Gouless with the workhouse cow." And been I had wested, or the milk was dirty the milk in classed as to meetiles on heet I could. The poor people in "meeten," Bt. Hou. T. W. RYSORIX, M.P -8th January, 1912.

to go open the record. There is first the percentage to go upon the nesset. There is now the privatinge of suppliers delivering clean milk in clean wessels, two distinct things, and second, the number of visits on which the nulk supply was found in the condition referred to in column one of the Table. There were 801 different visits paid, not necessarily to different commerces, but wisits paid at different traces. On the consump of minery-three visits the percentage une 100the milk was clean and pure, on the occasion of me hundred and fifty wests, 95 to 99 per cent. of the male and forty-one vails, 10 to 95 per cent, was clean and visits, 60 to 70 per cent, was clean end pure; on the consists of thety-six visits, 50 to 90 per cent, was clean; on the occasion of eighteen visits, 40 to 50 per cent, was clean; on the occasion of six visits, 20 to 30 20 to 30 per cent, was clean; on the country of one Sile of 9 per spate, was drawn on the consistent of con-vision, 10 to 20 per cent was shore; and me the consisten-or new what the rmil, was which of try. I make a mission of new what the rmil, was which of try. I make a mis-sion of the consistency of the consistency, that we should have it upon your records. I I must stage any own weed "daily" heatons in an and, the large-spate of the experts—but underso milk there. If the farmers who supply with the examina-tions, the contract of the consistency of the con-traction of the contract of the contract of the con-traction of the contraction of the con-traction of the contraction of the con-traction of the con-tra

regard to better. I learned in Cork, a very few weeks ago, that one of the largest contracts for butter to an English first of bisest manufacturers was subdrawn Engine fire of the larm and the dirt that were in the heatens of the larm and the dirt that were in the heater. Bearing are not made of heles and dirt, and you cannot wonore me consists was musatines in 8600 orientations. I am glad to say the contract has since been restored, but the instite was challenged, as I say, and the quantum withdrawn for a white.

\$625. The Charman.—That was for creamers butter?—No, I do not my that—(after a penie)—I think not, it was in the South of Ireland. I the 3426. It is no well to make that clear?-I think the

my evidence to day. I say this was not contracty butter. I took some little time to think of it, because there might have been creameries involved, but I do not think there were. I have difficulties in this way. and third Water were. If have difficulties in this way, One better precident wrote to me the other sky upon the word "unclean" in the Butter Bill which I propose to introduce next Seasons, and such it ought to apply to the whole of the United Engaleme, that if the weed as put in and it to uptly to freiland, and not to Greek Britam, the Irain hinter trade would be general. I thin shat as probably the most extensuch ground. I think it will intercomy ocards better if it is stated at it clean and pure, regardless of other if the better is in Great Britain. That is the of what the butter is in Great Britain. That is the every I take, and the yew I intend to argo upon view i mace, and the view i modem to vago upon Prahaments, and that is the view may firsh collection will take, I are bortone. That view me hald, and weight beld. I do not think I could have counsed my Batter Bill as far on I have correct it if I mostrois a clause in it enabling the Department to interpret Irab oreameries for the purpose of cleanliness. I know I would not but here we are alcounds this question of servivore raffic m an unclean condition to environment: the greatments are to blame; but if one country refuses it other econstron will use it, and the other may shut up. I think I have solved that hishestly. I have here an approved copy of the Bill I hope to introduce garly next Sestion, and I have dealt with

engless milk in at 8437. Prof. Mirrant.—By imposition?—Let me yest faish about unclean mills. We have powers of suspe-tion now. Clause XI. of the proposed Bill reasis.— "Any genum who knowingly "—let me my I have that weed in an Act of Pathiamusi; it is inserted by

the disforman; it is simply a way to defaulties to get out of any Act of Perliament, and I will do my best to get in left out—" any power wise (a) incomply places milk, which is welless or tainted, or it con-tained in a dirty result for use in a concerney, orems separating station, or other place in Ireland "—I may in used for the manufacture of latter, cream, or other dairy positive for sale; or (b) biowingly exposes for teinted, or to be contained in a dirty vessel, shall be coeffer of an offence maker that Act." And then the tainted, or to be contained in a dirty vessel, shall be gettler of an offence under the Anti-Nai them the promity is set out. I have bed great difficulty in con-vincing some of my colleagues—not my collections in the Department; I have other colleagues therebore— that people have not a right to buy dirty still it thay like. The shi doubtran of the liberty of the subject is the Department possesses, is necessary. I hold that way, if they report before this legislation takes place, at all ewats, to help us in scarring that the milk supply should be clear and wholesome. 3428. Professor METEAN.—Can we have a copy of

3428. Professor METEAN.—Use we take a copy or that BH2.—No, it is only in dualt.— 3429. Is it on sale?—Oh, no. There is great demand for Bills to be published before they are produced in 3430. The Cauman, Just at the mamont there seems to be on ununtted demand? I must take the is accord with the stavity of this offence, and feel that

3431. Mr. O'Runot,-Of course, thus is elements that stones under the Local Covernment Board, and

3432, Professor METAN.—Mr. Complett does not then't that?—That is the great difficulty in legislating upon this onesisten. You have to draw the line between With the official report of the evidence I almost whelly conour, but the evidence was largely as regards health—the health of oblidies—and not very much at record to cattle. Processor Thompson, utom I have consulted in this matter, was reported in the Iran-Types to have suppored a question in most a married as to leave the impression that this was no article of a mand of 1000 concentry consenses. When I came to read his syndram in the official report I found his reads was that it might be possible to make separated mile part of a nutritive dict-a very different thing. the difficulty, become \$ is a strictly matter that an unhind, and that the report as published in the Press was incomplete report. I have get the official evidence, i.I find that Professor Thompson and in rophy. and a find that Professor Thompson said in reply, I thruk, to Mr. Wilson, that it was possible to make this McNell, who pressed him upon the question of its value

for children, he said-and this was not reported at all-

it was not food for children at all, and that any obest vations he had to reake were confined to adults who could get fate in find in other ways.

5833. The Cransmax.-Quote so.-I do not think the last word has been and about separated milk and I carry in my mind a very meany feeling about the quantum at the present moment. Some six months Lord Ashtown. Lord Ashtown as a great breader of outile, and if you will allow me to make a negrester or, after I have done shaing what I have to say about Lord Ashtown, it would be that if this Commenters goes to the West they ought to examine Lord Ashigam. because, I think, doming from busy as a great brender keth's work "-I am quetrog the letter-" he had cannot to key breeding stock in creamony districts." by the remnant of a very old conference—there were ontheyers as before I were so the Department. I creek, is this: The milk is sent in, it is put toto the separator, the cream is extended, and all the nearest to add fat to it to rapply the want created by the exto sidd tast to it to respect the warm created by one ex-lenced. That stands to reason. Fat, after all, in processary to young catelo, and if you need hack on article for food purposes that has no fat, you must apply the want of it. There are happy-go-lacky facsupply the want or it. There are happy-go-inersy far-mers in Ireland. I am gled to say they are scarce, and that the farmer's profession in Ireland is becoming more Supercoing they do not use fut, and that the sensible braners use calf mend—I are Professor Campbell look

palming off throngs upon the people of this country which are not what they pretend to be. I call them accordingly, incurse carely all these same who practise the admitteration of food, for either saws or beast, and send if from England or Scotland or other places into thus country to decerve our people, are nexundrels. I notice evidence was given as regards this eathly. cattle. I notice evizence was given as consecutive on a contractity so an article of food to be said in cities and lowns, and that some portion of it was sold. Well, I hope it won't stery into our either and tower. I am told it is better than tea. I driek very little tea; I have no very high opinion of it, and I think the poor pecosis of this country are prespelled by the absence of rulk to drick far too much of it. But supposing it is even into the alcans of our clines, into the wretched shops where what is supposed to be really is sold, a lot of the poor children in the shees will be worse off then

triet on no secount give it by itself to their cattle. ] birth it right to say that oning to the false impression

Rs. Hop. T. W. Busante, N.P.—8th January, 1919. ports in the Press on a very important subject, the facts 3434. The CHARRAN, -Ded Lord Ashtown. better to winch you refer, state the reason why he stembered buying sattle in the creaming districts, or did ht only leave so inference to be drawn?—He left the inference to be drawn; he said by did not object to

the commery system.

3486. He energy and his practice had changed?—
Yes, that is no; and now, sir, I think I have preciously exhausted what I have to say, except to suggest the 3436. You purpose directing attention to the pay-possile made in the scheme outlined by Father Barry at surrounded by dairy forms, where there is no defined; in wister or numer to polding milk. There never will be any sewesty of milk in Dabilo, but I take memthe try correctly of value in Mressle, see a tree accept depth areas, such as she urshes consely dashroot. I have mentioned. I see really to difficulty in the Ireal authorities, when requested—stablishing milk forms and milk supply depth for the forms. I make as ordain quantity of time, and they could have upon dairy humness, under, of course, all the restriction of the Durius and Cow Shelds Order, and everything cite, and they could not up a milk mappy of that kind Whether it is a matter that be delighted to assist any scheme of the kind. I think

15 is reserved, seen in bosons under an extend parties, but no more.

3637. The Characte.—Weedd you give the local auflectity the right to negative lend compulsoraly for that
purposed—Yes; I am not afraid of compulsors at all. biss. I want to make that clear, because I think a permissive otherse would be inoperative?—I rathe no difficulty shows compution, and I do not think there would be any difficulty in Parliament. 1 size, Think in the summerphies.—Lee, but there would

the land sequenced in proper pases.

3440. Mr. Contract.—Would you not key the notic from the farmers?—You. 3641. Thee, if the municipal subbordies started depote, and heapfur the milk from the farmers, there would be no objection to that?—The farmer has to

\$449. I understand that the objection the immer has you are to meet this drawed for an adequate milk sup-I wint to see the butter tends increased by large and beauth. If you are not to divert it from the comments, you must get your supply somewhere che. I am not welfad to this scheme, but in thinking it can I wish to state I see no difficulty in municipal authori constituents, setting up milk depots and setting the whole machinery of town degree, and repplying the over, and I hope we shall not see thin as an article of commerce in our towers. I hope that the Immers will be able to use it up, and that the Department and over-able to use it up, and that the Department and over-other organization will longerous upon them that they people with melk.

5663. The Charanan-For the moment you I yourself to urban detricts.—Yes, that is my limit. 3444. Mr. Caurent ....But there are voluntary much The Crammay.-I will esk a question on that later Rt. Hon. T. W. Bussens, M.P.-8th Jonesey, 1912.

Mr. Resents.—That broops me at once to the reral districts, because, as I have each, I have comitted the enties. I have made the suggestion as regards these orban council districts. Now I come to the rural coun-Barry's evidence from the official report. Of course, the idea of Commons to as old as English history, and calculy protected and guarded from infringement. Commonage idea is a very splendid one if we had a Father Barry in every distinct; there is no reason why it should not be teled and persued wherever there are many of them. But it is not easy to introduce new siens of that kind into Ireland, and if they are introduced it is not easy to provent quarrels and difficulties arising. I am quite propared to admit that there are many districts where Faibur Berry's theory neight be worked out, and it would be heat to limit it to rurel screet; and anything I my must not be taken as de-

3445. The Cramator.--Had you an opportunity of reading the official copy of Pather Barry's evidence. reasing the omera copy of rainer starry a cridical because, unfortunately, the published report of it was very incombinated.—I have the official note beet. I very monomorative—1 ourse use currons able over-spent part of peaterlay (Sanday) reading it, and a very good cormen it was. I am straid it is a solvent that social not be sarried out all over Ireland. There are places with Fother Barrie where it will work. The difficulty in all those cases is let me give, without indifficulty in all takes cases several as golf, which of treducing a word of controversy, an illustration of the difficulty—take the agricultural credit hank. It works admirably wherever you have a local man, works admirably wholever for anybody cite, who will give him-prices or the restor, or anybody cite, who will give him-self on to it and work it. Without that help, difficulself up to it and work it. serr up to it am work it. witness that nepp, differen-tice arise. My lifes is that wherever you have Father Barrys you occid earry out the Commongs pins, son with advantage, and it is the heat solution of the ques-

2445. The CHARGEAN.-Of course this solution would not be universal, because it would be only possible to -Too, hat lead is being divided in a great many places. 8447. But a solume such as this would not be considered as macking the difficulty in every metance?ment upon Fither Barry's evidence goes, it is exturely tracedly. I think his is a good saltene wherever it can be worked, and my best of the possibilities of its work

2648. I think it is your opinion that no general scheme ago be derrised which would be applicable to erery circumstance that may eree our the entire

3440. And that if recommendations are made by this Commission, dealing with the question, they will have to be made in a series—the one applicable to one set of conditions, and the other applicable to another set?-I gutte agree. I do not know whether I acre, gatte agree. I do not know whether I could apply the same principle to rural district councils that I could to urban district councils.

2450. I am very interested in this portion.-I am to oure, but at the same time it might also he possible some position as the Urban Detaint Council, and to

S451. I am atrud the difficulties would be enormoney mercased in the case of Bural District Counrate, because of the wider area and the scattered popu-Then, what are we drawn to in the rural distracts? We see driven to gosts. We must either have a large fresh supply of mileh some or goats. There is a good deal of difficulty about goals. First of all, you must get your goals. Now I understand that goals will have to be not from the Continent, or, at say rate, to a laren extept.

3483. The approved goat?--Very well; the approve There is no great Continuated country where

foot and mouth disease has not taken up its perma-ment retaining. I absold have comething to say to the entry of goals from any country of that kend, and I consider that no minuster responsible for the agriculby the importation of geats inon commiss where look and month disease has almost a permanent remotions. That is the first thong I have to cay, that if goats come in from the Continent, they will have to come in well a commisse and warranty, both from alread and here in from the Controlls, they will have to cores in well-a generates and warranty, both from about and here as bone, that will settley the Agricultural Department, which is repenable. We have look took and meetile disease out of the country for twenty-avering years, and disease out of the country for twenty-avering year, and 3-603. The Outstand of the controlled the con-breagh they laid in about their deep of the first though they laid in about their deep of the first

know periosity well what we have done in this direc-That is the first difficulty. 3654. Mr. Campania.—Is it not the case that the goat cannot be introduced without logudament?—I do not know that; I have so much legislation in my mind at the present moment, I have had no time to think

NAMES. I showk I are convent in saving that no animals. -no remissate-can possibly be admitted except for —no restribution of the property of carminod (1909) for soologied gordens?—I can tailor surprised at 686. 5466, Mr. O'Sunts.—Or for immediate alsogbler? Mr. CANVESLL.—Of course.—That would have to be considered. 3697. Profusor Matran.—That pertucher Act affects

cared for. I had a most intercolong letter the other allowed to go surees the fields and country-side abe will, it is said, produce three quests of milk per day. seem no unconsistence of receives and agreement of goods are to be allowed to wanter all over the country-side at their sweet will. There is no succe destructive em-nal them a good, there is not a farmer in the accuracy who won't bull you that, and farmer of the accuracy who won't bull you that, and farmer of you to good wandering over these fields, eating everything. You may he cared for. People imagine a good can most any-thing; it cannot; it is an extremely debeate animal. 3438. The Charman.—He does not like a day of this (The weather was very inderestat.) wind, for instance? A day of this kind is very orrions for him. We all know that driving through the country, one area goals to mass arrying inpenge site country, one area goals in situbes with very little to cat, and fragiteered out of their lives by motor surs. I think it is a most shocking thing to see those animals bethered in ditains, and almost frightened to death. You have got to get the goals, and to see that they are eared for before thay supply thus definency. I see not see that the certing of them is not the more deficelt. People in this court try do not esteem may imperiance to the goat; then soon to think they can live anywhere end in any way and go anywares and retroduced into this country as part of the coneme or remove, will we make not thing, and that the farmers or integerers who are them. I suppose it would be the labourers—are prepared to bosse them it would be the innovernment graphics to none them properly, and to see them properly fed. With these confidents fulfilled, I think the goals could some in. at all events as part of the general remody.

349. Mr. Casresal. - Would you be prepared to sup-port a law to beep posts off the readsidat- So. I would not; I do not know where the poor azimali-

3860. To the labourers' plots\*-No, I would not 3901. Then you cannot belp us in that?-No. 3982. In it not desirable to keep all animals off the roads?-Thet is a counsel of perfection.

3458. You are quite aware that farmers have a great antipathy to the gost "-Yes.

5464. And if the goat is to do any good, it must be bester fed and eased for; but it is very deciriful whether it would be possible for an educational authority to get them to do what you want without a little correspon? 3466. No; the farmers and labourers.—My atomor to that is you are not in Parliament.

3496. There are aeroral measures of that kind; there which the farmers welcome... I peaced that myself.

8467. The farmers welcome... I peaced that myself.

nor is.

3468. Ya it not possible also they world welcome
none measure to stop the depredators of guata?—I and

3489. If goets are to be properly cared for, and po-perly 66, they must be taken off the readstafe?— Take as upon the quantion of posts as being partially incessly, but I see difficulties. With these difference tanky not I think the Dayantmeet sught to exter upon the thing extinuely with and so the second for a constraint of the second and so the second and so the second for the I am conserved I shall so my boot, but I do not concern born my soft the difficulties. 5470. The Channes, ... Before passing from the ques-tion of the councily for supplying the defentacy in resid districts, you shall be solution you have outlined you-cell would be rather difficult to just into operation is cell word be raise difficult to just into operation in the roud distribute—Top.

3GT. I would be gied to know your opinion upon a solvene based assurable upon the lines I peoples to indicate to you now. Supposing for a moment that the unablished control has indicated power to en-thance to the control of the property of the second of the control of the control of the con-cepts of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the as their districts to deliver saffs as an indicated contact of distribution, guaranteering a certain acquire as a fixed pure, which would be peak you to bright the Deliyas Council as the Seministration, authority to you think that would meet the difficulty by Willy I have not considered it, but as you have noted in the distribution of the considered it, but as you have noted in it, it think it is a possible eacherne. It do not think to the think is the proposal to the considered it, but the proposal to the considered it.

week such a scheme, but, in fact, I have not bed time to counter it, and I distin giving abrupt opinions. I think that perpenal of yours bears upon the face of it elements of a working possibility. Sirk A possibility !- Tes, I think so. Of course, coral district councils would have to take it up, not in a perfunctory way, but an a matter of sheetend duty. 3473 I would raske it imperstive; and, furthermore, in order to curre that the mile would reach the poor in come to much uses use mine output of the contribution output to be made by the Stote, or other fends, in order to charge other parts in the pure to the consequent —I object also gither to that. I object to all such subventions of that

grings to man. a organ so at same your kind. No one should obsopen my food. 3474. Mr. Camruzz, But you feed the pauper We give it to him I object to pauperise people. 365. Why not so year outdown have two which is in that is that the mappinger should pay wages that would enable the likeway to live as a man aught to live. I have 8475. Why not so rear children that they would be this libourer to live as a man eight to live. I have the libourer to live as a man eight to live. I have the greatest objection to say subvention is said of the food of the georgis. Same people propose to tax, and others peopless to give a subvention to thesepes, food;

I am appears been.

3446. The Gennance-This Communion has avolution to the control of the center of the control of the center of the youth of the country, and the development of the youth of the country, and the development of the youth of the country, and the development of the youth of the country, and the development of the youth of the country, and the center of the country of the center proper was commentable so may make any source to ony other things took quities so good. I think you would got sole cradies differenties if you begin to track proposals dark run containty, let me say, to consecute asserts, at you like. There are people, of course, who cannot allow to bey anything; the bester line between portrait and containing it were charm and memors, and people are after to buy anything; the beside fitte between perceived paragrains is very sharp active, and people are constantly errossing over. But it I where an interest I would sharp to possible the property of the property of the perceived people and the perceived people and the perceived people and the perceived people and the people and people and

3477. There is another supert of the milk question which this Commission has to consider, and on which

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we would like to have your views; that is the question to regard to the importion of duties, rails depote, and We have had evidence already from those love an Order drafted for the purpose of ensuring clouderous, and the production of milk under hygorale

conditions rapidly enforced in one distroy, wheeas it is only looky enforced in souther, and perhaps not in operation at all in a third, while the producers in the distinct whose the Order is rigidly autored have to sected to the seen; regorner conditions of inspection. Do you think it would be demable that an Order of this lend should be made uniform, and its administration he controlled by a central authority?

has been seen in the control of the Office applies to a feature with the control with a screening, but it does not apply to a farmer who makes his butter at home. Of course, the obvitte reside of these is the Order is framed on the bests of pubble health. Local Government Board takes organismes of the danger fuctured; it does not take cognisance in the same way where the ferroor does not capply his milk to be mixed where are servicer does not suggety are sent; to be mixed with the supplies of others, but who makes the butter at home. The danger to the public builds in not can-sidered to he so great in that way as to the other. I am use defecting it, I am only making a estimated of first, and I know the suppliess to commence feel neighborn who do not supply sulk to considered are not under. That is quite true, but I am not prepared

to color upon their.

2071, I was error to and whether or not you think the colors, if you don't wish is some of their post and the colors, if you don't wish is some of don't post if it was not to the colors of their post of their post in the colors of their post of their post in the colors of their post of their post of their post in their post of their post of their post in the colors of their post of t weeks age a Head Controlle in a Stockern horsz-1 of she like to give she navin of the form-brought and wenten before the mayor of the form at the police court. He gave existent that the sam in which her court is the many conveyed was so thing that when he look out them conveyed was so thing that when he took out the part that existent the property of great little incredit. The manyor was greatly sometime of great little horsy what his December of the discipline of which is the low what his December of the discipline is the property of the low what his December of the discipline is the property of the low what his December of the discipline is the property of the 30 power-reces whatever; but he had the power, and that was the way he exceeded it. Take excellent case that was the way be exceeded it. Take succher case A great little county primate to proceede the nockur of britter, no matter what the quantity of water that was in that butter. The loss of primate processed, the processed of t

serves pronected. These was twenty-rate per content and water in this better; the first was can percup-rate and molecularity for the Department is on down to the molecularity of the Department is on down to the same large pronected. In succhar country the same large places lade to some form of the same large places and bobbin. There were been cases that may be considered. What was the content of the down to the down the content of the down the content of the down the of an may zen addings one on magai mass velocors in this country! It is no use, and that for it infacted not by your collings magnetates at Prity Sciences Courts. Why, the Department took the greatest pairs

Rt. Hon. T. W. Ressma, M.P.-Sth January, 1912. in the sale of coargazine for butter. I do not know whether that comes within your reference or not; it does concern nulk in a certain way; but you saked a question on administration. We went to the greatest possible teorible. Our mapertors were all well known, and it was not a bit of use sending them in. wrote to a poulcome large in a disonit part of Ireland on make a postal arrangement for the supply of 10 hot of Irish butter every weak to his resultance. This populcon are the consequent of the post transfer of the consequent of the post transfer of the consequent in the second consequence of the postal consequence of the brind was unadoknessed sungarnor, and so the brind was unadoknessed sungarnor, and so the brind was unadoknessed sungarnor, and so were sungarnor to the sungarnor than the postal consequence of the postal conseque magistrate was going against him, raised a point of low which he could to have raised at the heginning. mently, whether the defendant elected to be tried bementary, we did to distinguish the second of the second from a court of summary jurisdiction, or whether he sleeded to go before a yary. He selected a jury; the case in the police courts was stopped. The case came before a yary; the gorderson from the distant part of Toland came up and gave evidence blow a man. The pouge of the separate over was over any one man-mented the Department, and said everyone in this case, had done his duty, and he would do has. A wednet of guilty was returned, and the judge proposed to give him where more than bet took time to thrule of it over night. In the interval it was found the man's beart was very Well, now I say that that is robbery of the poor, because it is rebbery of the poor that is the offence. do not eare who the judge is, whether he be a judge of

the supreme cours, or magistente at petty sessions, or mayor in a borough in an Irish town—I say be conarves at the receiving of the powers pair of the popula-tion if he does not properly purish such an offense. If you self water imbest of milk to the poorest of the you set water motion of more to the poores of the poor in the sloms of Dublic for the children, if you supply water instead of butter, I say it is as much reb-3680. Mr. O'Buzzz.—Imprisonment of the head, or the principal person?—Of a number of persons.

3483. The CHARMAN.—Speaking for myself, and, I am I was surprised to find from the official witness of tion, and that your officer can only act through the cood-will and plenture of the greamers Tast is so, and we take noncus in the Durrence Bull

3462. I am extremely pleased to hear it, because I is admittedly a defect. Clame 13 is as follows .-order at all reasonable times 68) Any recession (transcription and for

Drugs Acts, 1873 to 1907, and (b) Any other promises in Italiand at which will one

take sumples of any butter, aream, or milk, or any articles capable of being used to the manufacture of I think that remains the defect in the law 5683. Professor Marrant -- May I suggest that y should use the word "licensed" instead of "regis-tered" there?-That is not the word in the Bill; we

3484. If they were licensed you could corner that orthan registrature whose you could conver terms orthan registrature whose you make were certifed into effect before they are licensed?—I though that as what it comes to, but I may state quite considily that Ithe all Bells where there are inferred at stake, the Bell is not the best; it is only good, and it is better to get the good than to strive meflectively for the best; that is exactly how that sands.

Sand, Mr. Converna.—The Beenees you refer to Pro-fesser Mostern, one in relation, I take it, to new pre-motes, and no nor coold start new premises until they obtained a license? Professor Marray -Yes, and cutil they satisfied the

\$486. Mr. Campent. Of course, the Department's Inspectors have power to go into the creaments under I think, the Food and Drugs Act, for the sorpose of

a usual, the rece and brugs are, for the perpose of ascertaining whether the premises are connected with a margarite factory, and so one but they have no power to go in to see to their classificates. The Charless.—I certainly was rather disappointed and shooted to find that the Department's officers had

specied, the manager has the right to close the door in the Improtor's fact. It is altogether wrong, but 5697, Lady Evsnann-Perhaps Mr. Russell might

The CRAHMAN,-I did not put that question to Mr. Government Board witness said he believed it would lead to much more efficient admirishation of the Dave tee and Milk Shape Order if Beersing, rather than rerepresenting any inscreet, has expressed an openion and has sat and reported on the Bill, and

S488. Mr. Campuzz. -- You are thinking of the crethis question arises, and I think it moots the purpose of 5489. The Charman,-I am looking at it in the

broader sense, and referring to during, milk shape, and other threes where milk is varied?—I have not the slightest doubt lacening is the peoper course to increed you would have them completely my your 3400. Furthermore, it would ensure that previous to sonal elements of character should be present to satisfy -I suppose they would then be an the position of the men who want to sell druk, and would recours an or-8401. Lady Evenson.--I want to sek a question in reference to an carlier part of your evidence. What is the size of the ferms round Athrony?—Large, very

large. Of course there are purts of Galway where they 3402. I mean the distributed lands? Those that have been divided up? 5493. Lady Evensur,-Yes,-My configuration is that shopkeepers and horneholders received quantities of particular size, but were mapped out its small holdings

made no in tion. I got them down, and left the details to be our ned out by those interested. 3494: You spoke of goats being destructive, but don't poor, and grow as food upon the other half accessing purasit me, see a lebterer put his half access a better purpose. I think he can. At the same time the gost as a very valuable arman, subject to the conditions I have had down. If you get all the conditions, the in-bourer's half acre would help to keep him. 3995. Mr. O'Benex.—The labouress have an aere?— Sometimes they have an aere and sometimes helf an aere.
B490. The Chamean,—They don't have an aere in retry dead?

NOO. The CHARGON, They don't have an age in rever ease?

Mr. O'Berry.—Generally they have an age. Onethird of an agree world foce a good.

Miss McNatt.—Of course they could get grass from crateds.

ORADIA.

Lady Everano.—I was about to say that gears are belowable by the foreness in a great many cases, and they are above to grow upon the lands—Don't take they are above to grow purpose the lands—Don't take your lands of the goal. If they come they will have to overs make conflicted that will closest

M97. Mr. CLASTRALL—At the present time, under the Dames and One Shock other, inspections are used by the stylenomy negoes compared by serious Bonal Double and the stylenomy negoes or the stylenomy negoes are not to be a state of the stylenomy negoes are not be present who appears the new restriction returning regression and the process to be impresented as the stylenomy negotial state years; in a further potential end with the stylenomy negotial state years; in a further potential end destined as the stylenomy negotial state years; in a further potential end destined as the stylenomy negotial state years; in a further potential of the state of the

ming part to one governor in magnage wince you understand, Mr. Campbell:

"When sold the wavering balance holds,
It's racely recht adjusted,"

And where a man has to and under an order and it

And where a man has so six soler as order, and has anthority over those enfecting it, a certifien of affairs mines that does not real to good persument. That is all the length I go. Take any meaning out of it you have a little to be the interpretation of the phrase very wall—If the work goes to a State Department—and,

of course, that meets the Agricultural Department we never refuse mything. 2009, 1999, 2009, 20

the week, that I (there is nave it semantical from one public department) to maker without a corresponding subsymmetri for the purpose of the week. I think we have a right to shad out appliest that. 3300. Mr. Correstant. —It is emped that it would tool to better results?—I have no death about the value

lings, proof the feature developments will be used to b

fault would be against stem.

303. The hubbling got up due't meet the regulabone of the Louis Bowermannt Beault the ease you recritised journal of the wants who maybe melling.

none of the Local Hovermunt Board; the case yas recritized jourself of the wangs who supplied will to the weeklouse shows thick—Yes who supplied will 3500. I am aware of the case of modher new holding created by the Estelen Communicacy. It is sho-

trained by the Erishies Communances. It is since intelly trained first the purpose of begings until over, and the state of the purpose of begings until over, the purpose of the purpose of the preparation of the purpose of the purpose of the purpose of the before me the state of the Council that That say it a member of the Council that That are it is a member of the Council that That are purpose of the point of the Compiled has made though the point of the Compiled has made the thoughter, be are point out the obdepense of the brillings, be are point out the body B. Hot, T. W. Rivenna, M.P.—60. Assuring, PRIZ. as the same of the Effects Communication and the Congusted Decision Shooth, but more as in the case of the congusted Decision Shooth, but more as in the case of the congusted Decision Shooth, but more as many as the constraint of the congusted Decision of

beine of recovery, one way for stock, had when in part of the Markov and concentrate of the had not the receiving and I thank, no markov and Markov and Markov and Markov and Markov are part of the Markov and Markov and Markov and any right to call upon the Blade, which has tradershaked any right to call upon the Blade, which has tradershaked any right to call upon the Blade which is the Blade of the super-part of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the trade of the Blade of the Blade of the Blade of the trade of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the part of the Blade of the part of the Blade of the part of the Blade of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the Blade of the part of the Blade of the Blade of the Blade of the Blade of the part of the Blade of the part of the Blade of t

and the same profess on control the control and profess on control and control

enline of ceithbard fovermoust Departments by ceither and the work arrain of a by their under their conducting language was a conductive of the conductive work of the kind done on the ground the conductive work of the kind done on the ground the confusion. The sense sofficient, I would have a kind on the sense conductive of I would have a kind on the sense of the conlution of the Lond Government Decell has hid done on had been been as a final property of the consistency of the confusion of the confusion of the 350°. That is marriy to the conductive of the sith the peans executely of picture. They are declared with the peans executely of picture.

2000. This is exactly the panel. They are declared the third the state of the panel. They are declared the third the state of the panel to the panel

concurrence uncome or measured one terrater to not conquested districts, where they are supplying the milk, should have different in save other districts—Cecianly sat.

3868 The Causaux.—They must home as under all the directs—New, but I desire to be roost graved in what I say ahout the Congreted Districts Econd.

3509. Mr. Companie.—My point would be met if what is deno was begun in such a way that in denor wis begun in such a way that in delared it could be completed to the estimication of the Losel Gormanica Board?—I have great sympostry with thus, 3150. But if you begin your fraudofisms writing, you cannot easily alter them distrained—Most of the

members of the Communication know the hourship condition things were in whom the Cooperiod Districts Board countries work in whom the Cooperiod Districts Board communication work, and range Philip in the way of improvements was sedecens. I think things are gifting better than they were.

3511. Mr. Winson —I think you would agree with

adequacy of the building, let me point out the both the statement that the milt copyly problem, trested as

Probed mane dictioned by the University of Scuttermoton Literary Domination Unit

Bt. Hon. T. W. Bossers, M.P., 6th Jenuary, 1912.

a whole in Iroland, uphits florif up into five practically a whole in ireland, upths meet up into me perillously water-sight competences; one, the problem of the big cause, much as Dublin and Bullint, which you have an aroundy analyzed, but where, so far as the ovidence withmitted goes, shows that the scarsity of milk smoog the pooter people is just as bad as it is anywhere else?

Sit2 Evidence has been given that emoupt the power people the searcity in very bad indeed?—I do not think sometry exists to any large extent in these colors. Let us take poidth, the example. The detail often. Let us take Dablin, for example. The discretion is to under Dablin bave always a plentiful supply of milt. They have sharinged of the poor soil. Say have sharinged of the poor could for an occasion to the poor people of the p

people?—I am coming to that. The power people have their generances, but I do not thank sourcely of wife is one of them. There is no deficulty among milk is one of them. There is no amening moving people when I may denotive as well-bodo people, and so are as the power people are concerned, I have hved dity years in Dabbit not these in nover any real searchy of milk. The Vertry is always three. There is no years for searchly where there are may large strainly-re-

of dairy farmers to supply the city, and I do not think there is any somerity.

3314. Turning it into a quantion as between marchy and Variety water, there is not much difference?—There are worse through it is better than separated milk. \$515. You exclude the larger districts?—Yes, now, the second compartment would be

the heef much aron?-Yes; but there is, of course, a gravenore as to neet recome.

3517. But the grievance in itself differs 8—Yes.

3528. And these are different from the congested areas, where the whole country in like West Densgal?

Different sets of questions have to be an-3359, Dilleters and to question over to be as-swored?—Yes.
3359 And these again differ from Pallamore and Atherny?—Yes.

Sign. We have really five distinct problems to look mate "I do not object to

your classificance.

\$553, Leaving the Sinks out of the question, and turning to the beef ranches, such as Father Barry dealt with, for instance, Gelway and Chere, and speaking now of the occurity people living in the middle of one Barry has suggested one form of selfolion for that par-ticular problem, and goods have been suggested as an-other. In these a third activities for those living in the host ranches 9—Nes; the Chairmen than made a sugges-tion which I think a possibly workship one. 3328. For a rural public supply—Nes. I think that by what he meant, and I think his suggestion will hear

a great deal of thinking out, and probably will meet the difficulty in many cases. No one remedy will meet

5024. That is the reason I am trying to get others? "3855. Take another fact. The Women's National Health Association has done a let to form public opinion on this question. Would it be possible for a public arthority to work in connection with such for a profile authority to work in connection with such a holy if if agendated a demand, for instance, for milk which exists here and there, but which is not properly lithful opt and if secondar who can see a little further than the demand of to-day and formerow is willing to organise that themseld, so you see any differently in carrying out an arrangement of their kind?—I should

8626. That would be useful assetsings?-Yes, think the Local Authority would require it, and would 3827. Take the third compertment, that is the marnery areas. I should like to be quite clear about

about Takes the final correporturates, that is six-manancy reases. I obsorid like to be quite done short arranged rease. I obsorid like to be quite done short the state of the state of the state of the state take. In the first phore, the burder appet the state that has three or four years. I have taken the depres-tion of the state of the AUSE. Yes. 2880,000 in count Spired—Like down 200,000 in the years. \$529. It has gone down continuously and steadily in

firs years?—Les, seeming and continuously.

3500. At the same time, the number of miles eather has not decreased in perpendice?—No, but I think there is an answer to that. There is an increase in the young might cettle, and there is an increase in the young

2001. Mr. O'Banes.-You mean by that that the farmers are giving more new milk to the calves?—If would use a certain proportion of the milk. 2022. The CRARMAN,-Weich would make for better

Mr. Willson.-I am not trying to make reference to ay controversial pourt. For the purposes of this Comany controversial potest. For the purposes of this Commission we have got to Icave that out of the question?

Cortainly, and I have tried to do it. I have not said

3553. There is this currous moundy; the butter occo. Arcre is this currous numer; in fairner, ports are gang sleedly down, and in all probability they will continue to go down still further, and at the sense func the number of owns applying units and the better feeds is not going down?—That is no. And what is still more currous in the necessie in imprete,

which have gone up in the same period by something like £150,000 sterling for foreign butter. axis. Broadly speaking, your idea is that this country is districtly improving, is on the upper gradient' — Yes, very distinctly. I mind free years upo we were very distincity. I med five years of rounding the corner. We are fully round the corner now, and anyone is the Department compelled to work

the evidence spars and spain would see beyond yet or may that in almost everything that affects the wel-fare of the people, this country is making, not only steady, but rapid programs. I would to give that ditinetly as my opinion.

2555. Let us apply that to the butter tends. Would it not be usional in these streamstances, seeing the improvement in the welfare of the poorer people, that they would use more butter?—Yes.

3336. If you see many other things not made in Ire-land with the figures gang up?—Yes, it is an infer-cace; there as no evidence. The difference between -yes age attempting to prove we can our butter in stead of experting it. I have no objection to sayou stempling to prove anything in this world, but you have here no evidence that you can offer. We have and began to est our butter and other people's butter, but before you can powe that that is so, I require the evidence. I give you the evidence of the docreased

one center out can prove unit that is a 1 to -There is no ovalence that you can rely upon that it is You may get evidence that a certain creamer; made. You may got evolution these sorroun evolutions are goodwing larger quantities this year than the year before, but atthews that comes the figures that offer ecoameries are producing less. All I went to improve

proof that that is so.

1338. Mr. Wincox,—In the aberno of absolute proue trust our oursines sense, and we must do our best with the available figures, and these figures show that milek cowy are not on the docrosse, whereas the ex-\$589. Would you object to the same double arrun in regard to poultry and the decrease in the expert of ages and feathers?—That is not a thing that has good

on for years. The export of eggs goes up one year, and down another. Butter has some dears steadily to five years.

3540. Egg expects, taking the Department's figures,
have gent down from 6,000,000 to 5,200,000; I take
those figures from the Department's own returns, exthere be a masprint?

would me detended expert of eggs prove that we were cating our own eggs? 3541. Mr. Wilson.—But including the fact that the hen population had gone un?-You are on the more

more young ortile to be fed.

ground there.

3542. Professor Marran.—Esting your manufacture?

—Xis, of course; that would be the same thing. Are these pounds to which these figures refer, Mr. Wilson? these pormits to wood these agrees refer, ser. wascen-1548. Mr. Wilkows. "No, hundredweights. A II I am trying to got at is this 1.5 shore more or less suffix in the country than six or seven years ago?—I quide agree with you. I said in reply to Mr. O'Bron, there are

3844. Is that all?—That is one way of accounting by work, and, as the Charmon says, they are the better of it if that is where the part of the increased

know the point you are driving size-ill as a perfectly dis-cussable and debuddle point. Die Department ge-certain figures. We know these figures are carried, for arranging perfections. We get figures showing the arranging forms, and which well be much worse the year steadily down, and which well be much worse the year than the year shows, becomes of the shrings had the startler. Of course, on these two I built subtings has here is a continuous decrease as the export of brider. Eggs begin to oscillate, but they do not go down stead-ily to the catent that butter has gon down. 1845. Mr. Wilson —They go down steadily cough. -Not in peopertion.

3546. Certainly in built.-Well, the position you seek to take up is this, you don't question the decrease? 3347. Not by may means ... But you say it is council.

2648 I suggest.—Or, rather, if you are wise, you would my it may be caused owing to the better condition of the prople; that they are coting more butter, more eggs, and more milk. 8549. Considerably more?-Yes. Well, all I our say o this, I are quite prepared to draw inferences of any kind, but I am not prepared to build legislation upon them. I sense have facts, and you have no facts to go open. I have facts that you have not, and begins I

the hutter experts going down. 3550. Well, let us have these. My point is that the balk of available milk in the country at the present time has not decreased. Mr. Eurerii has said there

have been going down, but I am not at all some this is wishin the terms of reference of the watrant. 3551. The Chancara .- I should be very sorry indeed in limit the discretion of any member of the Commission to drauss any question which in his mond has a

sion to discuss only opening where in the many has distinct bearing on the propose for which the Comme-sion has been called into exchange 5—If think it has a boaring; my difficulty as that it will involve us in concaca. I sen quite occisio Mr. Wilson is not desiron of leading the Commission, or any witness, into any continuestal matter unless be thinks at its useful for

the purposes of the mothers which the Commerce is exvestigating?—If Mr. Wilson them's that any opinion that I em give as to the reason why lotter experts have gone down would be useful to the Communities, I shall give it to him.

3553. Mr. Witsess.--I think it would have a distinct

The CRARKES.--I are rather inclined to thesh would, become after all it is perfectly clear from the criticase and returns that the number of rails pro-ducing animals in the country has not domested, while moduced, and one is contous to know to whish purpose
the sails produced is now being deroted, by view of the
fast that it amont be used for the assertification of
better?—Very well, then; to go to the rect of the
sailtee. The Commission will bear as mind that past
as the expect of our butter dimensiond. The import of matter. The Commence will have me mind that spot as the expect of our where dimensioned that import of foreign butter like spots up. Now, one recent for that diminished expect of hostize—and for this purpose I will be supposed to the spots of the spots of the state. Continued to the spots of the state of the spots of the state of the spots o factories that is to say, they have imported feeeign actions. It is not openimed. Evidence was given be-fore the Day Inchesty Commissee that they imported feering botton. It quite recent years they have gone out into the nactod and bought his ordinary farmer's out into the nactod and bought his ordinary farmer's

butter. The Department has got information of this

St. Hon. T. W. BONKER, N.P. Sth January, 1922. ently. These butters are blended and are worked had scores of cases where the labels have been sent to me to see whether khose labels would pass the test of these things are better staves by illustrines. A case was beength to me in the Department about the memorial ago. There were several letters from british ediciers in the market shaling that a certain censure owner was buying butter in the markets and girting a proce for it that the ordinary butter dashers outly no

poses of the prosecution. After the place was regis-tered as a factory, the Inspector went to see the proment; he sent a copy of the labels on five or six profets consigning it. I ordered a prosecution, Well, now, that is a sample case; because there are a numboy, that is a sumple case; because there are a number of these ereaments under the stress of covers

been as much difficulty placed in the way of that Bill by vested interests as was possible to place in its way. and butter merchants have come to the conclusion that if they wish for Darmh butter, or Siberian butter, or plontal better, they can get it by other ways than 3554. Mr. Winson,-That is the very point of view

It suggests there is more time that matter sets in the country than there is, which from our point of view as a Milk Communication to colorily authorory. I am on a lift Contrassion in control, and theory—I am coly secondaria for the disturbed rigues.

6003. I think, probably, we have now spent baseough on the print. For remarked some sums ago that owing to the small bills and the bad dobts, the color of the state of the same ago, that owing the differently is a failing unite?—I don't little in the same of the same and the

3599. Yes, but perhaps the small bills and bad debts lie at the root of the difficulty 5—They probably he as the shad difficulty in regard to the selling of milk in

Soor. Would that he at the root of the difficulty in 3338, Supposing the Women's Natsagal Heelth Asso. casion, or best other non-contravenial body, the United Link Women, in ordain areas, buy from the famous the whole milk in bolk and distribute it of popular prices, would that be a solution as the lower?-You

\$550. In spite of the voluntary efforts in the beef reach areas?—That is voluntary sometimes. 5560. The two things are the avuse?—I think the beef such acress indicate that the Women's National Health Association might amost the local authorities. I have no objection to bringing in the Women's Research

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Bt. Hop. T. W. Russma, M.P.--8th January, 1912.

Health Association and the United Irish Women, and all the help you can get. I think it is a delightful thing to use everyone taking a living interest in the people. If such organisations are willing to work, and are available, do you think that would help both in the groupers and beef much areas "-I cannot constitution

erosmery selfing milk that way.

3602. Why?—Well, if they did, it would go to show has refly sould pay much better than batter.

3933. Mr. O'Buse.—Milk will pay much better than batter anywhere!—That is to the farmers. It is a question of the prenies; if is not a matter of the prenies.

this a question of gotting the accounts and of gotting the people to bring their peones.

3564. Mass MCNRIL--It is also a question of time as well as of the pennion. You would require some

3386, Mr. Winson.—I was making the assumption that e voluntary agency of some kind would be available between the wholesale milk seller and the yeld mik sememe? Of course, ray evidence as regards murningal areas is quite clear. In the read dis-tricts, peakably, the moster is more difficult, and I think the Charmen's suggestion is an admirable our. I think, with any voluntary assistance that could be siven in the rurel districts, it would be valuable, but you could not leave at to sense the go. We have seen Associations come and associations go. Heaven forbid nearth of them in other countries. enough of them is other countries. Recurs notes that I should populary the dermise of any association doing so much good now, but, after all, we know these matters are dependent on many things that may acree. magners are supported on many samps wish they seried and, therefore, you cannot brush associations alone. If you are going to deal with this you must deal with a responsible body.

\$566. The Chairman.-A statutory body?-Yes, some responsible hody, and that body may call in any aid it

5507. It is obvious that legislation never can be based upon the maintaine and co-operation of volun-incy associations that may be in existence to-day and not in-received. Parliament does corious things, but 3508. Mr. Wilson.-My point was that without le-gislation a good deal might be done?-That in so.

3569. With regard to Lord Ashtown's remarks that he censed to buy eatile in the cenamery areas, that is a specific charge ogeinst the creamery areas -He dis-

5570. But the inference is there?-Before you go further, may I say I have mentioned that letter with 8971 The CHARLES -And to invite Lord Ashtown

to be a witness?-I have not the booose of Lord Ash to me a windown-i inter his the county or aloue to town's sequentence. I do not know him; if I did I would have written to him. I must decline to enter into any discussion of Lord Ashtown's letter. \$572. Mr. Wrasov,--Certainly; but what I meant to ony was, was it suggested that the cattle trade as a whole should be considered in Ireland rather than one

particular area?-What I took from it was the sample condition that he, by his experience, found it wis not safe to buy his estile for certain purposes in certain 2073. I yead the letter at the firms .-- I date say

Leed Ashtown will tell you more about it. 5576. I was not going into his letter or his opinion. What I was going 1000 was the situation in the eartitrade as compared with the altention in the butter in The satuation in the cattle trade is thus, asof outile expected has gone hursely up, and the value per bond has gone up?—That is part of the growing prosperity of Ireland.

3375. It shows that the prosperity is a perfectly germine prosperity, in which the conditions of the

3376. There is nothing in these figures to poore that she enleasted of the areamery system has injured the natile leade?—Nothing.

1377. Now, I want to get quits away from everything conferencial, not even touching on the edge of it. We have bed evidence submitted that the most dan-

be in a country farmer's byre, and if the farmer make butter at home, he does not come under the Dairies and Milk Shape Order, and if he supplies milk to his own family he does not come under the Order. We want to tev and devise some bests by which these clinically tered. Have you say suggestion to make in thet di-rection?—That is a very bug question. ASIR. I do not most to estore. There are not mere-

Mr. O'Brzer.-It is estimated about three thousand. Professor Margan,-That is a figure so one could

Comment.—It is the only figure at our disposal of the paracent moment?—My difficulty in this, as this question is founded on guesswork es to the extent of the evil, my sawer would be founded upon guess-work, end saything that involves the destruction of Note, that subjecting has invested as it is contributed to those extinated successes compensation to the evence. It have very great difficulty in giving an openion now off-hand. I did not make the part of my evidence. We have consulted about it at the Proportioner though with our consideration of this question has not gone the

SUTS. The CHADMAN,—You have not material your opinion upon the question yes?—Of source, you will beer to mind that a great deal of discourses, and conbefore it came to me; but the moment logalished was up my mind as to what should be done from the Parlia-

2080. Mr. William - It has been suggested many times, and in many countries, that a cellic insurance scheme would be a means of endiesting this disease!

3381. Supposing a central point of such a scheme was that the velezimizy imperior should refuse to insure

3582. Lady Evenuer.-In it not a fact that on the Continent there are sometime for eatile insurance?-There may be, but I have seen many schemes produced in Ireland—none of them workship. 3580, Mr. O'Briev.-You have some sort of selected of calife manufactor in the Congested Districts Board, but it is only, I think, for grazing outlie for nine months, or

something of that sort. I remember a discussion with Mr. Dorsn's—That is possible, but again I gased myself Mr. Doran?— rame is possible, not again k gazer mysett by saying that I do not profuse to be familiar with all the deadle of the administration. No main in my position could be. It is quite possible that the great projects, who have incomes quantities of unbreasted have some insurance schume

\$584. They have a scheme, but it is not mercanoe, but for the cattle grane's. You will a Government insurance of cettle is a different theor. \$595. In Prance they have an logurance achone for

1586, Mr. Winson,-As the beginning to-day there

of milk existing, and where serious complains made. Would it be possible to send in a list mesic. Would it be possible to read in a list of the places from which compliants were received?....I think priose from which companies were received. — I mira. you are going to call Mr. Gordon, our impactor. He told me be had reports. I blink you had better ask him about it. He has reports from the Agriculture

\$587. The Charman.—He is to attend at the next seed, the Christan,—the is alleged at the haxa sitting—In report to my own general experience, these four mass I gave were quite recent, and, of course, came before me us a very direct way in gerng through the country. I think when the Communica goes to the accurity they will be distillusioned of any lifes that security to not a fast.

3388. Mr. Wraser.-With regard to the Dutrice and Countries Order, more particularly in regard to the rundlin farmers, who si present do not come under the acope, I think you said you would like to see all cowofficially, I am not concerned with public health at all, as I feld you. That is for the Local Government Board, and although I personally would like to see head against a stem well; the boad generally gets the vector of H. I can not prepared, either as member of the Government or as a Member of Parliament, is knock my local against say sovidable stone well, and if I can going to tell every former a Irobard that this Constant Order must apply to their types and so con-scale, I to a a lively limit abade, don't facil to a constant of the property of the contract of the con-secution of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract

3389. The Chamatan.—Will it be recommy to go to Westprensies then 5-Preface not, but I don't think I worster. In these circumstances, it is a What is the sound and proper thing to do an optic cases, too waves regulations and commissions office reject the good on purpose to got the heat, sensitimes the good whetch could be got would be more affective than the host at which they aim but never get. It is more a question of expediency how far you can take people along with you. It is a question of great difficulty. My own takes would be to have the

highest senitory and hygienic conditions 3300. From the purely agricultural point of view, the health of cows and calves?-You. 2001. I am speaking of public health?-It touches

1986. This comes discriby under the Department of Agraeditors?—Xes, but I say you must hasten slowly with the prejudices of the people. 3500. With regard to exclosulteres and tainted milk? —I have a very great objection to this word, as there is no standard of tellsted milk and a very unworkship standard of wholese suffi. I do not put in any

standard of unclean milk,

but a definition to a field like this, people would by to get out of it, and I have it very largely to the discooling of the Courts. We discussed that que when framing the Hill and deliberately left out We discussed that question definition becomes of the danger of a definition. 33%. Of course, they have streven in many piaces to arrive at a defitition?-Well, there are very ingenreus people. I would rather take the definition of 3993, Sir Synwart Woodworse,-Mr. Russell in his evidence mentioned an inland town of even or eight thousand inhabitants where there was marely of wells.

Dt. Hop. V. W. RESSITZ, M.P.-8th Jensery, 1913. and would be surry to escrept it. If you

Tellamore?-That is a town of about five thou-

SOO. Tellimore?—there is a row to examine our many many installed the many installed the conditions of a milt shop from only to end. It is a good town, but the foulth of the mutter is shot the want of mult has produced other birtop metend. Milk is gone out; people dolt agree should be one on an outlowny food in the woy they did 8807. And they make other arrangements?-Yes, and 3008. Peof. Marray.....Is the explanation of the milk

ting out that they have much other arrangements?-3599. The milk itself is desuppositing, and they have made other armagements?—Yes. Take cocca, for inand condensed milk. They see largely used in 3600. And tea! I am glad they see adopting outon metend. There is one thing I centred to say. I guite agree that the absence of winter skirging is largely at the root of this question. I did not mention it before

the root of this question. I did not mention it before my evidence closed, but I should not like people to The CHARMAN -The Commission was conscious of that fact, but they did not wish to embark on the in-westigation of a question that might involve them in

### Miss Manager Brends exemined.

340). The Chapmann.—You are one of the Sanitary Officers of the North Dublin Rural Durinet, I under-stood, Miss Rickard?—Tox. the winter months, dee't you find that there are dis-tricts where milk is not provariable for mency?—Yes, in Cooleck. There is a big disry there, but all the milk 3902. And, of course, you are familiar with the r which the children of the power goes to Dublin. conditions under which the 3656. In there a decryment having a darry herd located in Cooleck village?—You. 3933. Here you, in your expensione, occo districts in which the supply of milk for the children is deficient? in Costock runger—Los.

3617. Would be supply any person requiring a pint or a quart?—I don't think so, because he has get a regular supply for Dublin and he would not leave that

—It is all over my distinct, 3004. All over the distinct, you say?—Yes, 3005. When you speel of the supply being insuffi-cient, do you mean that the milk is not poorarable for money, or that the moory is not available to buy it!— 2018. Would the demand of which you speak be enteruces—would it be operative every day?—I don't think it would.

1019, You don't think that the people who are with procupable. 2000. For Margan,—The mency is there had the milk as note—Yes, when they buy a pent of milk, of course, they must have the money. 2007. The Chambrish—De they may substitutes for 3619, You don't them that the people who are wend-out milk would be in a position to buy milk every-der?—No, because they might not have the money

for it; when the labourers are life they don't have the money to buy the milk regularly. pure milk? Yes, 3600. Of course, that is obviously a great difficulty 2008. Such as condensed milk?-Yes to the supply—that there is not a continuous demand?

—You. I don't think there would be containty of a nece. Do they one snything che?-They only use that with tee, 1610. They have not used the dried milk?—I have

NGL Post. METERS.—Do you think that is the scuson they exceed get the milit?—It is parily the aver bears of it.

1611. Sell it is available?—Not through my district.
1612. Mr. O'Barns.—Do you mose by condensed
ralk, separated or condensed whole unfle?—It is the

M22. The Crammer.-I understand Howth is a dis-Seed, Inc. Comments—a understand Hower is a custoot in which the purveyor of milt could be natured that he could get a continuous demand for a specified questity from day to sky?—He could. In summer, in 1618. Novadays, I think all the condensed superate

3614. The Cromwor,—Have you many families in our district which find it showed impossible to get millo 3624. It is impossible even for the better class people? 8016. I am not now telling of an all-the-year-round supply, became the dany cattle of Dublin are only -They can get all they want.

lowth, there is an increased population and the supply 3035. For that means the poor people are unable to get a continuous supply?—They cannot.

3025. Mr. O'Berry,-At what price?--td. a quart in the winter and 3d, a quart in the summer.

Miss Margarry Because,-8th Jensery, 1912.

2606. The Crausuax .- Is there any difference in the near. The Crossway—Is there my difference in the price charged by the pureyons of milk to the different closes of the community when they serve —No. 1927, is these a number price?—V.es. 1932, What I want to get from you is than; you say that the belief class in the surrounce tune get a con-tinuous signly S.—Ves. 1932. A black of the community to the price of the price 1932. A black of the price of the pr

3029. And they are charged a higher price for that continuous supply than the people would had—ho; the same proc. The butter class people take one or two quarts in the day regularly, and the milk purveyor is sure of these quatomers. The milk comes there and poter people oannet get it. nor procest people cannot get it.

2856. Do the children in your district get a sufficient
quantity of milk in your opinion?—No. A women told
me at Balgardin that a child of born, a year and a balold, did not know the teste of good milk. Some people
give her a cryful, and she milkes it with condensed

3651. And that is the only milk food that the child gets?—Yes. Other women told me that they get a pint of skimmed milk in the moreous, and that has get to

de for two days.

3632. There are other dury-keepers in Coolock?—Xes.

3633. Do they supply milk?—It is all taken to Dublin. lublin.
3654. Do you believe that if the Coclock people would

course a regular demand for a fixed quantity of milk, it would be possible for them to get it 5—Thry would get it, I think, but the poor would have to go nog distance for milk. Pethops on we days the would not go to the darry-sheps for the mik. 8685. What I went to know from you is thus-supposing, for example, that the writ of a labourer in Coologk village would contract with the person who

5626. Yes; but at the same time I den't think we own ontemplate a scheme where it could be earned to the door. There must be some little mountenings-

3637. A good many Dublin dairy cows are grased in North Dublin in the summer?—You.

3638. What prevision is made for bissing the non-sail attendants of those cover—II there is so old gate-ledge, or disused lodge, the deiryboys sleep in it. They see leaked up all day. 3609, Prof. Matrast.—The boys?—No, the houses. 3639, Prof. METTAM.—The boys?—No, the houses, 5899, The CHARMAN,—What provision is made its the despliness of the cows or weatons of the hands of tostness. The Deary Inspector boke efter them, and Dr. O'Doughue.

Soil. You refer to it in your draft evidence. So

for an you know, no provision is made for the superor fer the conditions under which the milkers live, or fer the cleanittees of the vessels in which the milk is placed, or fee the weshing of the milkers' hands, or Mrs. Mr. Wilson,-You recommend a remedy-the establishment of milk depota?—Yes. I may say that establishment of milk depots?—I.es. I may say that the number of labourers' cottages has increased very much in my district.

3543. What is your opinion about goots?—There are

few as the district. New Mills the people were encouraged to use goals it would be helpful?—I have often asked people to get out the begins - a new atten asked people to get sem. They say they are too destructive. 3845. That is the ordinary limb graft - Yes. I have tried to get the people to get goats.

1996. If a better class of annual that would not be se destructive could be introduced they might favour three 2... They have only not half an age to their

nothings.
3847, And the "long mondes "5-Xes.
3848, Mr. CANTERLL.—Where do these labourers come
from that are in the Union cottages "Generally from
the distinct. They are seen of people who live in the 1860 and a second of the district of the control of 9556. Could they not get milk from the farmers? -- It is found that the farmers well milk the Darry

3651. And they step selling milk on that account?-100. So in your opinion the Order is one of the causes why these people caused get mili?—I believe so. People den't like to be regulared. I have some people have stopped willing milk because they would

people nave sequents.

M460. Do you settually know people who were reflarge milk that have stopped? —Ves.

3054. To whom used that to sell?—To the people M65. Are you aware that in some cuses they ware selling milk out of a yard that was not easitary, and you asked them to register?—I told the Dury Inspector. 3656. And did he say that the farmer himself must sak to be registered?—Yes.

3667. And would be have to stop selling neilk?—Yes, until matters no improved. Our Board is very strict. 3668. The Order must be one of courses of the want of milk by Jahources?—Yes. you enything to do with labourers so farm, and who are working on the 3659. Have you on tucked to the farm, 3550. Do they got milk from the farmers?-Some houses they don't, and some men tell me that are given coal and malk by the farmers, and that they farmers object to give it. I have two cases within the emer object to give it. I have two cases within the

1002. And is this curtom dwine out?-Yes, in some 2003. Is it because the inbourers have got into the Union cettages \*- No. It is not for that renson. There is also very little buttermilt, real I don't not the people solting very often

3664. I was taying to get at the reason why it is that the labouring man, constoutly employed on a faces in your district, who used to get milk from the farmer, is not now getting 317—I don't know the 2003. Supposing a farmer keeps a few cowe for his

inherors a fittle railly would at core to the second and an additional and a fittle second a labourer, and I give him as just of his ways to quarte of all fit all, would you come he may be a fittle second and a fittle second a 1999. Is it not the difference between six and half a dozon?—Yes. If you be 5070. Have you may instructions on that point?—N: 5070. For what Authority are you noting?—To 2071. For what Authority are North Dublin Roral District Council you noting?-The 3072. Who gives you your instructions?-The Corr. Who gives you your instructions?-The Cour-3073, I am talking of the milk constion. If you hear that a factor is selling raffit to his laborers he will be called on to register?—I don't tall the

2074. Who does tell them?-The Dairy Inspector. 2075. Are you aware if the Dulry Inspector has agree instructions with regard to that?-I don't know. It 3056. What is your business?-Seeing that the people ore alean and living in sanitary houses 3677. Have you mything to do with the food supply?

Cornell that

3678. You me giving us evidence of what comes before you in your daily work?—Yes. 2679. It so not your business to impilio into these thange?—No.

3690. It is not your hasteres to inquire sate the sherings of the milt?—No.

360. Prof. Mirmax.—Who inspects the lodge where the dany begs that you spake of shong?—I gai them closed up and they are left idle perhaps for six or 3682. But you have to see that they are in a proper conflict for habitation?—I get the people out.

Miss Manager Recepts.--8th Jenney, 2012

3685. When do they move to?-Perhaps into a new SEE, where do they move to?—Frenage side a new outneys. These houses are locked up all day. I beset that the boys show there at mixts. They much! not be that the boys sloop there at night. They might a all condensaci. The boys sloop there on steam. 1684. You think that in certain districts. If there was a sufficient demand by the people living in those destricts the milk would be available for them?—I don't brow. They tell me they cannot get butternile for broad, so there cannot be a supply of fresh mile, as the forms does not oburn.

3886. Mr. Wilson.—In this confittee a new feature?

It is about to your old. The population has almost doubled in that time, with the labourers' coltages, and I find want of milk very much among the people. 3680. The population is going up?—Tee, on secount ine propiettors is going up: — ree, as secount is inbources' cottages. It is being doubled. We 90 behources' cottages alone in Howth.

have 90 here 99 belowers' cottages alone in Howth. 2687. Were not these people litting in houses before that?—Yes, but the families get so large. 2688. Mr. (Computer.—These are people that would hatorally live to the city?—Yes, 2689. Now they are working in Dublin?—Yes.

country, and are not attached to the farms in any when their sons and daughters got meraled they get

3691. If these cottages were not there would they have gone into Dublin'—I suppose they would. 3692. Prof. METER.—Take these mostly cottages in Blowth-where do these people come from who peoply

them?-They are the som of the people who coroginal the original cottages there. We were very corofin not to give houses to anyone but inborrers. 5600. Do these nivety people some sate Duklm?-5694. They do not come into Dublin?-No, not from Howth, but they do from Coolook and Balgreffer. They

3606. Sir Synware Woodgoose,-Are there milkshope in Howth?-There are daines. 2666. The rich and the poor are charged the same for the malk?-Yes,

\$607. Do the poor come late in the day for their supply?—Sometimes. We went a depot whose they could get the milk at any time in the day. There is a fire supply of milk in Howth. 3008. Mr. Canrenza.-Who would set up this depot and look after at?-I don't know. Perhaps the Women's

3689. Prof. Mirram.—You have plenty of milk in Howth, you say?—Yes, in the winter, but not in the 2500. Mr. Campunga,-You would make this depot soil only to the poor scoule?-No, to everyhody, \$701. Then you would be no hetter off then you were, because the rich people would take it?—The poor would have a better chance of getting it.

The Communion then adjourned to the following marriage

# TWELFTH DAY .- TUESDAY, 9TH JANUARY, 1912.

The Commissioners met at No. 5, Upper Cartle Yard, Dublin. Present:--P. J. O'NEIL, Eq. (Chairman), Lady Everand; Miss Margaret McNeill, Sir STEWART WOODROUSE, M D.; ALEC. WILSON, Esq.; DERMOD O'BRIEN, Esq.; J. R. CAMPSELL Esq., B.Sc.; Professor A. E. METTAM, B.Sc., M.B.C.V.S.

S. W. STRANGE, Kan. Secretary

The CRAHMAN.-The first witness on our list this ments in the afternoon, so it may be more convenien morning is not in attendance at the moment, but I understand Mr. Young is, and that he has engagefor him and for the Commission if we take Mr. Young's

3702. The Crammay.-- I understand, Mr. Your you are engaged in the dairy industry in Dobbin? 5708. And you are a worder of milk in the city and 3704, Will you tell the Correspond how for your think the application of the Dagies and Milk Shops Order has hampsood or restricted the supply of milk to the city of Dukin; has it been responsible in my way

for reducing the supply of nilk averballs in the city?-\$705. And you, as one triding under its conditions, make no complaint about the restrictions it imposes? -No.

3706. Here you considered the quorton of Bosnaiu and, if so, are you in favour of or against the proposal?

—I can in favour of it. 3707. You think it would familiate the inspection of the premises and improve the conditions under of the premises and improve the conditions under which milk to produced and sold?—I do.

3768. And you do not think it would look to a dimu-torion in the supply?—No. 3709. Where is your deery estuated?-At the Herostege, Golden Bridge, South, Inshieure. 3710. You are on the confince of the city?—I was a the county, but the Comparation kindly took me in. I was taken in in more than one sense. .

Mr. Joses Yorne examined. WIL As regards your tends, is it largely in the neighbourhood that the milk is produced that it is sold, or do you send out variet—We go as for as Hath. muse, and we go to the 9712. You branch, so a roade of the only "-Yes. so to speak, on the two outer ords or one onty -- res.

5713. Which see lengtly randoutsal?—Yes

5714. Here you any trada with the artisen clear?ince connected with the Bulway Company

rigs consisted with the Ruleway Company, "MIL Am these men in the employment of the Ran-way Company"—Yea. "MIL Company"—Yea. "MIL One you give the Communication cryp then of the questity of milk command in the femily of the ordin-sity actions, earning from 30c, to 60n, per weakt—Tags obtains over more than many of those who are better and over the company of the company.

3317. Boss it depend on the number of children in the fundty—Prenetty. 3738. Be you think this those who are responsible for the care of children radios the importance of milk on a food for children?—Certainty. 3719. And you believe that the shidren, in that district at least, get an adequate copply \$-2 thruk so. 3725. Con you tell me what questliky of mulk per J732, one yes ten me want queezes or man per head, per day or per week, is consumed by the fearily of an ordinery orders, commented as I have de-arrited.—It ranges from about one queet to two quarts

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Mr. Jones Torono,-Oth Jonesery, 1923,

3721. Do you make single or dual delivery?-Dual: serning and evening. summer months?—Yes.
3723. In what district?—In the same district. 1

have 150 acres there.

3726. You have land close to your dairy?—Yes. Are the cowe within the Corporation district

the land is divided-part in the city and part in the 5726. Is any inspection made of the cows while they are out on grass?—Not that I am owner of, 5727. Is there any difference between the adminis-

is the conjugate to the conjugate to the conjugate to the Sund District Conzoll—I have never head of any imposition better made on any of the Dubling partial leads. 3728, With regard to the people who are engaged in the militing of the cover and the distribution of the nilk, have you any difficulty in enforcing the pro-visions hid down under the Order concerning them?—I themselves clean. The one looked after them.

3729. You think it is necessary that the master should exercise experticion in order to ensure that those provisions are carried out?—Yes, 3750. And without the supervision you would hardly expect that it would be done regularly?—You may be

3731. In it your experience that the cost of con-learning has increased in the city of Dublin within 5772. Might I inquire how long you are in the

5702, Hight 1 liquide now foot your arms. Find?—About Swenjy-seven or twenty-eight years. 3788. And you believe that the cost of cor-leeping bas increased within that time?—31 has 3784. From what course?—The cost of feeding, and wages have game up. wages have gone 3755. The wa-the cows?—Yea. wages of those engaged in looking after

the cows?—Los.

3736. And what item of feeding has increased most
in cost?—Grains have gone up in price considerably,
and also oil oaks, or lineed cake, has increased in

peles.

5792. Mr. Canvessa.—Do you give lineard cake to
your owns?—No; but it is given.

5793. Then you do not buy si?—I have bought it.

5793. The Canvesse.—Have the greats deteriorated
in geality "siths your resultive than in years gost
you. They are now too notifier than in years gost
you have a presented of their.

5742. Have you been in the habit of using grains 3742. And you believe that the grains new supplied

see inferior 5.—Yes; even within the last five years they have deteriorated on account of the new machinery. 8743. More is extracted at the distillerses than heretofore?-Xes, hoth at the distilleries and et the

5744. Have you made any calculations that would enable you to inform the Commission what, in your cause you to more one commission was, in your opinion, weed he the cost of leeging s our for, say, the six winter months in the only — Lee, I have put it down in writing. I have three estimates prepared. One of my own, one from Alby, and one from Pertar-

2046. You say in the written statement you have hunded in. Estimated cost of probering milk to handed 19, "Estimated out of probering milk for winter season, faking the average moch at twenty cown is—Cost of grains per cose, 22 barrels per week, as 12, 35, per harrel 3a, 14,11, ins. 24, ovek, as de, see costs, 6a, per week) costs, 6 lbs. per day, ot 12a, 8d, per barrel, asy, 3a, ; dirich, 5d, ; cootes, 3a." milk for 3746, Mr. CAMPRILL.-Is that for 20 cowe?-It is

3747. A cow gets a threepouny drink per day 2... No.

3748. The CHARMAN.—You state, "Cost of roots, 26.; man, home and cort, for delivery (man, 20s.; borse, 10s.—30s.)—1s. 6d."?—You. 5749. And, "Horse and out, grain and wash draw-ing, 6d.; cest, in." That is to cover the rest of the damy-yard and the rest of the shap?—Tes. I put down that figure as the rests of inquiry. No most world be able to get this accommodation for less than 492 a year. I committee that is a fair rent. I considered the matter very carefully before I got does. hat figure.

3756, "Millions of 13c, per week, is, 2d, "5—Yes,
3756, Nr. Camessat.—I presume that is million and
ender?—Yes,

STOR. How many milkers do you have to 20 cowel-One man is supposed to do it. A man will milcowe on kour-a rood milker.

sight one on farm-a good militar.

7533. The Cumastar—Not continue year state-ment—Depreciation of the cost, \$41; depreciation of the men, \$42; depreciation of ears, \$41; showing two bornes, \$42; depreciation of ears, \$41; showing two bornes, \$41; depreciation of ears, \$41; showing two bornes, \$41; \$754. New we come to the recipies—Average quantity of milli per cost per week, \$45 gallens, \$41 1. \$24; per gallen, \$16. 44; "Sew \$41 \$3. 64 from one provide consumers, but there are few men in the feed who have not whetched contents, and they

trade who have not wholesale contourns, and they only get 10d. a gellon for it. Mine would average shout 1s. 2d., and that is the reason I put down Is. 2d.

gollen. 9755, "Present stock, 00 cours, loss, 3s. 24d."?-3756. Mr. Winson.—While are you in the trade for, Mr. Young?—That is a prizele to myself. 5757. The CHARMAN.—You study that "There is no interest for cogitid, and there are many sandry an

2758; Mr. Coursett, What about the manner?-We allow the cleaw to go for the manuer. I have my own straw, but a good many cow-keepers get straw, 

of the Changes, 100 gave, Rr. Loung, an-other estimate from a gentleman named Mr. Gourge-Henderson, Ardmore, Athy 9—Yea. office estimate from a generalise mann, al., to-a., Henderson, Ardinees, Athy?—Yea, 5761. This is Mr. Henderson's estimate—' Coat of Fig. This is Mr. Remorrow a common tool of producing mills for the winter amount; average stock of 20 even. Cost of grains, cale, or oven, per core per weed, Sr. 6d.; moist, 2s. 8d.; hay, 6s.; labour and definery, Lu, alocing, Ld.; near, Sc.; feeding one boros, 6d.; wars on bories, cart, and harmers, 2d.; total, 1ds. 2d.\*\*\*—He wis "even" in the amount of the order. This was not bories, cart, and harmers, 2d.; total, 1ds. 2d.\*\*\*—He wis "even" in the order. This was not become the order. 66.; wear on horse, cart, and narrass, 44." 5—He only produces 10) gallens. That was her return to me.

3762. He does not stell how or where he salls in?

he is not keeping dairy cowe after this season, or they do not pay.

3763. You have another estimate from Mr. Tedcastle, Portarlington ?- Yes; he used a putent milking

3564. This is his estimate of the cost of the production of rails in the wenter season, taking an average duaden of milk in the surface meson, taking an average, another 32 eees. At the present time the stock is 50 cows. "Cost of grants per cow per week, Ix. 45., cole, 2x., trough, 3x. 45., bay and stare, 3s. 65., feeding one home, 3s., shocking one home, 3s., shocking one home, 3s., shocking one home, 3s., shocking one home, 5s., inhorter milking, and defireve, 1s. 65.; depreciation of home, 1s., and 1s., 1s., as, "S., William and the feedings of one home, 5s. I remainder that pull got the feedings of one home, 5s. I remainder that pull got the feedings of one home, 18c. 82. "S-With regard to the feeding of one borse 5c., I consider this price too small, and you must surely 3765. Mr. Todousile does not say what price be gote for mills, but obviously this 5s, for the feeding of the herse would not be a people estimate in the case of one

3766. It is the average cost of 20 cows?-- Yes. 3765. So you would take 3d. instead of its as the cost per cow per week?—You, I think you one perfectly

3768. The total cost in this case is 18s. St., and if we deduct is. fel. from that, you would have the cost shoul the same as in Mr. Henderson's case?... You

3760. Mr. Castronia,....What does he get fee has milk? ... He did not tell me. I wrote out a lot of themquestions and sent them to a number of farmers that I knew, but I only got the two returns. The others did 3770. The Cusarmor,-Con you suggest may remely wherehy our-keepers might be induced .00 their stock and produce a larger supply of milk?-One very important posit is that at the present time covtoopers are deterred from keeping or buying ontile account of tuberculous discret. In order to I

Mr. Jones Yorms,-9th Jenseny, 1992.

them, or to encourage them rather, they should get full compensation for all cattle found suffering from spin compensation for all control around statement and districtions.

2771. We should be gind to have your experience with regard to the disease of inherentoes. During the period you have been in the trade, how many of your

condemned?-One; if NY2. Your news are unspected for what is known as

STIS. Have any of your cows been suspected of saftering from tuberculow adders?—No. 5776. In the case of the samual that was alongbiored, had it exhibited expirious symptoms before it was tent to the abstract—No.

\$575. Under what concemetances did it come to be syno, unner what curementages that it come to be absorptioned?—It is a long time age, and I could not give you the detach. I think it was puting away, and that it was not sating. I have come to the co-clusion that it is impossible to cure come when they

give up their feeding and obeying the end. I think it is more economical to get rid of them at once, 5776. Than to undertake their treatment or oure?-5777. Mr. O'Brauc,-You do not think she was tested

with the tuberculin test?—No, she was not unnecessed with the tuberculin test?—No, she was not unnecessed?

3728. Frof. Maryan.—Tuberculasis was not unnecessed? —No. 5719. The Dramess.—Low suggest, as a masse of stress, which is sought of mills, that the danger with ranged to the pursions of owns substitute in which repeated to owns substitute in the stress of the pursuance would not seem to indicate that your expensions would not seem to indicate that you have subset only most former and any most financial loss in common orthic theoretics surrough your catalor.—Personally, I have not, but if the tubercalite test was to be applied.

the toleronlin test was applied. 3780. It is rather as a safeguard against the applica-tion of the telegradin test that you would cater a pretest, before it might become compulsory?—You,

protest, before it might become computarry?—i.e., because I have a steerig suspicion that it will become 278). Have you any suggestions other than those which are an your notes which would assest in in-oreasing the supply of mile?—Well, if there was more protection given to the trade than what there is at present, and that the State would compensate in full for cows condemned under the tabercoin test, it would

for cover constrained under the tonercom test, it would be a great improvement. Milk to for the benefit of the public; for the old and the young, the rich and the poor; it is a universal necessity, and the State should components the renducer when his own is sixuobtered in the interest of the public. 3782. Your point is that full compensation should be scored to the owner of any animal that is slaughtered in order to safeguard the public health?—You: and

the reason why I would say the State should step in is that when you are porchasing the core in the foil or market it cannot be guaranteed that the animals are free from behoresloss. free from tuberculous. It sould not be ascertained unless the disease to disgnosed and the animal

slyaghtered SYSS. I am not quarrelling with the provisions which

2784. You are appreheasive about what may lapper?—Yes. Having regard to Mr. Burus' Bill, seek Mr. Bound's evidence here yesterday, I am almed the tende will be very much hampered.

3785. We hope that common some will prevail, and that a trade of much interest to the public will not be readely hampered by legislative proposels?—It is always 3786. Here you considered the question of licensing?—Yes, I am strongly in favour of it. It is for the benefit both of the trade and the politic at might a few. 1788. You would not apprehend that the application are way degrees the of licensing by statute would in any way degrees the empty of mile?—I think it would be more inclined to Increase it.

5799. Do you think that a more wind enforcement
of the provisions of the Deiries and Milk Shree Order

would conduce to the same and?-I think it is strippent enough at presents.

STOD. Would you be in favour of the universal applisation of st7—Cortainly, for the country as well as for

the only.

6704. Do you thank the insiders in Diblin, who early on facer feeds in a city where the provisions of this Order see sittingcody enfound, either a distion Order see sittingcody enfound, either a diswith other traders who send mill in to Dablin by feeds,
and in whose districts the Order is not regard.

6704. The region is a little rate expected.

78106. What I want to ask you is this, do you district.

the provisions of the Order are not rigidly enforced, or, possibly, are not enforced at all? I think that the Dubbin traders are under difficulties that the country They are under great disadvantages people see not. compared with the country people.

3700. You know, of course, that it has been proved

milk supply; and that it is possible that people engaged in the milk imile tony be what is known to the medical profusion, as typical carriers?—Yes, 3794. Would you be in favour of 3794. Would you be in favour of having the milk attendants subjected to the Widel test 1—I would. 5795. And you do not thenk that would be an

unrescentile imposition on the persons connected with the trade?—No. The great difficulty in that would be that if you have a man this work you may not have him next work, and you would went to have a doctor on the spot.

3795. That is a contingency the Local Authorities would have to provide for. It would not be in the interest of the cow-looper to change his man con-

stently, and he would not do so without cause?-B to not the cow-keepers who change the man, but the men who change themselves.

3797. Do you think it would be recented if a register was kept of their lodgings, in order that their homes might be inspected, with the choice of sering that their magni or improve, who is a copied to bring that have hannes and families see kept free from infection?— They might object to it, hot it would be very useful. 3798. You think there could be no reasonable election efforci to that form the point of view of the

8700. And you recognise it would be a great cafe-

\$600. Do you think that the dairy trade is more safely left in the hands of private individuals than if carried on by a limited Corporation or Society?—Yes. think where the trade is occased on by a man who works at the business hunself, milking and serving, and, nertings, and, nertings, having the susistance of one or two members of his family, it is more profitably, and more attaches of the family is in more profitably, and more like reveal, or a limited comment, who have to depend 5801. The appropriates in hetter2--The appropriates

is in the hands of the man himself and his family. 5000. In there much difficulty in regard to below delay-keeping?-Yes, there are very few really in dury-men for the city new compared to what there mad to be in it some areas ago. The old Dublin dury used to be in it some years ago. The oil Duttin usary beye seem dying away. They were hard workers, early risem and good militure. A good many of those families have dropped away. 1901. In registy convicement have a difficulty in

cettine really efficient labour for the purpose of looking \$804. And it is casual bibour on which they have to No. Jone Young,-0th January, 2022

3006. Suppose one of your man falls to turn up at his proper time, our you supply his place?—It is almost you could not get a seal recent file matter you could not get a seal recent file neighbourhood, and if you were not able to do the work yourself you might have to let the outcomers wall for the mill. 5000. And the result would be that the delivery would be irregular and your materiaxes despined?—

would be irregular and your ensembles displeased?— Yes.
1897. Does the costom way from day to day—I meets, have you say difficulty by having a surplied of milk one day and not a sufferent quantity shother; is the consumption steady?—Yery.

take commonphion steady?—Years a shop over the commonphion steady?—Years a shop over the countrie, or do you deliver all your milk in wars?—All by wars.

3800. You have no shop trade?—No, but I supply some nearlies who read the milk.

seen resulties who redsil the milk.

3836. You have no retail milk trude yourselft—No. I gave it yet.

881h. Might I inquire for what reason you gave it with the reason was that the reni was too high to pay for the working expenses, and I thought the trade would be larger than it was. It was a venture.

on Artisoff Hill.

Self. Where a new colony had been established?—
Yes, and I found it would not pay. There were loo non-considered everting milk shortly the photoconstruction of everting milk shortly the phototic partial states of the property of the tas place, you found that the projet were precised for by carts coulding at their door!—Cart, hafere I started a shop I deformed the milk by the vans. I warded to give up the years and zere expense and have

a stop, but the people would not take the totalls to come to the shop.

Sit4. Sir Prawarr Woodsoran.—They are well-todo artisans to your district.—Yes.

Sit5. The Chammas.—Is there may milli-shop in

year disclost—No.

SELG. So that the people of that district are supplied by vast5—Yes.

3817. That, I take it, is somewhat a change in the trade?—It is.

SKIR. Heretofore the custom used to be with people corupying the position of an artisan to go to a shep and purchase their milk there?—They had not the same farilities that they have now.

3808. It is that the discrepant have demonstand them by sending the milk to their doesn, or were they too hay to go for it?—The people are arrives to go tid of tendin.

3800. You have no milk trade with the poor working classes?—Note the very poor.

channer?—Rot the very poor.

3801. Here you my difficulty with requel to
ensuring the proper delivery of your mile?—We have

860. I mean with regard to the channeler of the
mon enpaged in delivering it. Dot they ever cause
you trouble and expose you to trisks that are incidental

to the trade—tempering with the milk?—They do from time to time. 3853. Have you any experience of that?—Yes. 3804. A disagreeable experience?—Xes, very dis-

agreeable.

8865. And over although you took overy presention
which it was possible for you as an intelligent and
industrians mile producer to take, in order to ensure
that the mile appeals to your outcome was grave,
and as it easter from the cow, you got into trouble
because proceds interfered with the mile extracted to

them for differy?—Yes.

8801, And you were half suppossible?—Yes.

8807. Them is no means you can suggest which
would definite the difficulties existing from that3—Le
the live at percent strate we have no remoty against
the man old-retrig the mile, unders he is even by
the man old-retrig the mile, underse he is even by
the man old-retrig the mile, under he is
continuously and the strate of the continuously
reflected will not be taken, but in Terminated
reflected will not be taken, but in Terminated
in a couple of crees, the men have been purched of watering the rills. In one case a man yes 50 per
sect. of water into the complayer when the con-

\$609. And the mester proved neshing except that he delivered the milk to the man as it came from the owr5—Yes. \$600. The milk was sampled on delivery and dound 1880). And the person in sharpy of the still was contributed in barry added water to it rather than the corner of the smill?—Yes. 1881. Do you enguest that the application of the principle to I-thand would be helpful to the trade?— Yes.—It would about the most from tempority with Yes.—It would about the most from tempority with Yes.—It would about the most from tempority with the trade, expectably any person not having members of the trade, expectably any person not having members of the trade, expectably any person not having members. 3880, Raturally, men of repute have a distant style, then to have from range associated with vetor might be the to have from range associated with vetor might be

second second control of the problem and the second control of the

more beard of it. The cherica get their multi from over beard of it. The cherica get their multi from 8644. The Casaman,—A statement was made here to that offerth by a wittens. Then is the reason Lady Everned nobe the question.—You don't incore say employees of the Great Sections and Western Bullway On getting their multi-capply from the country—Me. Of getting their multi-capply from the country—Me.

Do, priding their entire enging from the occurry—mo.

The principle of the principle and atmost still the fifther as the principle and atmost still the fifther as London and the principle and

were perfect system of insurance—that a Scorety is formed to insure the cows, and that these are inserted by the Beat Collect and by the State?—It is a motion I have thought of.

3888. Do you think H such a schume could be carried into operation it would be of advantage to the trader-

8890. Mr. O'Breux.—When you made inquiries about the insurance of outlie do you remember what was the premium solid=T-al cannot give you the figures from manacy, but I know they were very high. 8840. Se. per outle—II was for more. I think it come to scorething like 18th or 18th. 8841. Mr. WIRKOS.—II a softerme could be designed.

Ireland at Se, per bend you think it would meet write approved—It would fit in very well; had that is high for a hig bend.

Mr. O'Banne.—I worked it out in the case of any own satists, and I come to the coordisation, having regard to the leases, that it would not pay me to misure all my satistants at Se, per head.

all my animals at St. per head.

3818. Lady Everano.—It is year opinion that if a scheme of incurrence ecold be devised whereby delay satish could be insured, it would be of enormous value to the teacher. Yes.

Sets, Mr. Pincots.—Another point that a good deal of attention has been given to lately it the mettor of looging a roccol of the milk production of each oov. Have you say personal innoledge of that?—No. If would entail the expense of Reyning a pown to look after it. We stret week milling so half-pass flore at the four control of the production of the set of the stage of the control. It for hard week to have

at four o'clock in the manning. It is hard work to have the nills out for six o'clock.

S844, Mr. O'Banza.—When do you comments milking for the evening delivery?—About 12.50 us the sferroose.

attenment in the state of the s

inachine that prevented me carrying on the record. Only for that I would have entitied the record, and I regard it as an executed part of the modern degree Would you agree with that?—I would agree that every precention should be taken to see what the cuttle read. I often go rears the milions and sake how much the cose give. You carnot sleave rely on their statements. My son very often takes three or four cows and stills them himself, and in that way we

2897. Without knoping an actual record a men may go wrong with regard to the cew that is paying her way and the cew that is not. Here you personal knowledge of that—We have no personal knowledge of the wrighting mechanics, and I know no chops in Dulkin where they are seed.

3948. The CRAMMAN.—In it not a fact that you only mess. and Charmon,—as in now a need that you only milk your norms for the date calving?—I broad a let. It heep may now bull. As I explained, we only loop one of which we have some this knowledge that they

1988. You don't ascertain the accurate yield pre 1850. Mr. William.-With regard to the meldence of

Subcondinia, your experience goes to show that personally you have not lest very much from that disease?—I have not lost much. SHILL I MAY SAY, DOUBLE ?- Yes, 1952. Is that the experience of your friends to the

3863. It is not what you would call a plague in the trade?-No.

8854. The number of cown that die or have been 1885. We had evidence given to us that he certain seem, and more particularly in the Urban areas, an improvement would be arrived at by the celebrishment of a mustelped supply. What wenth your opinion he

Aberdom when she was stretting her depots to children's milk, and I think that she has found in our since, that the people will not go to the trouble of Sixes, how as property to the cost of feelivering the milk at Is. 6t. a week?—Fee.

'd she was an much as much

2807. I worked it out myself the other way, so much a gullen per week, from my own experience. Your average one gives it gallous?—You. 2008. That is over a pount a gollen for the delivery? -Yes \$809. This corresponds with my own estimate.-The figures I here taken are the very lowest rate that say max can take for the working of the trade.

not a very accious liters to the working man who buys milk at his own door?—No. 8861. Reverting for a moment to the question of the

you would can unch country and at thing for the 1802. Would you not counider it a good thing for the owner of such an animal to have id destroyed to Yes, si for the animal. 1983. The animal is bliely to infect its neighbours?—

8854. But spart from the public health, the farm straids to look by beeping an animal of that kind strading in his stall?—Yes.

3865. That would be my opinion too. We bare evidence that the City Authorities have no power, or do not use whatever little power they may have, to do not use whatever more power ency may have, we go beyond their orea to control the trude outside?—It m a disputed question whether they have that never-3866. Would you be in favour of gring them that power if they have not got it abendy?—Too, for the simple reason that I think the man in the city are

better educated to the work than the country mennot saying that the country men easiest he educated as well later on. 8807. Is it your opinion that there is very little recepts for any kind of expansive improvement in the dairy husiness?—Yes.

The only improvement that could be carried core, any enzy emprovement that could be carried not without affecting the existing prices would be improvements that would cost little or rotking?—That 1982) These improvements are hard to finite... They

1870. Mr. Campuna,—Tou say, Mr. Young, you would prefer to have the trude in the hands of persons who have their family to sound them rather than that it should be in the hands of blg producers?-I said it would be more suitable for the small man than a Company. I did not say I would profer it. 1971. In what way would it be more suitable?—It would be more aritable for the man who earries on the trade husself with, say, 20 cours, with one or two-of his family to help hus, thus for a Company. The

Company would be races or less in the hands of it the employees.

3972. But if he was a large employer he could neva. But if he was a large employer he could put more capital into the husiness, and do it well?—The hetter you do it the more expensive it becomes hriker you so it the more expensive it sections. 8873. But, unfortunately, it has to be done expen-atestyl-Then the members will have to go cot of the

27:46.
2874. Is it not just those very people you refer to
who lare down the prices—the small mon?—To a on-3875. They can do it more changly?...They can. 3876. In other words, they can make a profit and you

cannot? They make a profit, out if my view were taken they would only get a workingman's profit. They are making the profit of the profucer, and of the make are macing the prent of the producer, and of the miles.

3877. You say that that class of mon can do it more chaughy than you?—Tex.

3975. Therefore it is a that man who is doing you out

trial? — I would not sty that.
3879. You are going out of the trade you say—you
tre shown from the figures that you excuse confirme? At in not worth H.
3880, Age you satisfied that that small man is working under as cleanly conditions as you can work? Some 3861. Many of them are not, you think?-There are many I exceed say so much about

and the state of t space in Dublin is VOI foot.

3884. Tour premises are shows the average size, I think, judging from the photograph?—Tes. Cownheds

must contain a certain cubic space in the city and country. I think there is a difference of 200 feet between the requirements in the country and city.

3845. It is 500 subjected in the country and 700 feet in the city. I did not quite follow your arguments. 3880. The cost of delivery at 14d, or 2d, a gallen in 888. Because you had only one or two tonerculous cows in you hard?—That is more good leak, but many

others are not so fortunate. 3887. You are quite certain that there are many milk producers in Dublin who are annually suffering less from baberoulous cown?—I believe so, said if I may give you the reason it is this there are many men who give you the reason it is time—there are many men wan don't buy is good or expensive earth: in I do, and their cove are very likely to be affected.

3888. It would help the trade in this way, that the

delivers could buy a cheeper out—Yes.

3890. That would be the tension—that you could affect to risk most—Yes.

3800. That would be the tension—that you could affect to risk most—Yes.

3800. Have you ever tood bringing milk in from the tountry!—No.
\_BEST. Do you know suryone who has weeked 102— There are many people getting in milk from the

ontry. 1892. Do you know where it can be brought from tounity, and there is another place in Bagget Sircel that also brings polk from the country. Mr. Jonn Toron,-6th January, 1912.

886. Did you ever calculate whether you could not how it as chenyly as you produce its—I could have it changed. Whether the point of that system?—No. 1894. You would not up in for that system?—No. 1895. It that because the custom of the trade in Dablin is to produce the mill: not the town or near the tendent.

8005. It that became the curiom of the reads in Din is to produce the milt: it the town or near the town of the training of the Life in the town of the training of the Life in the became the greater number of power was used to the product in the Life in the Life in all country milt, more or less.
800. You would get milt from the country with preservatives—Very little. In the summer time

almost not, not have not not parameters when the all country with, more or less.

3806. You would get milk from the country without preservation—Very little. In the summer time I don't see how it would be done, especially from places so far distant as Gork, Bandon or Tippersey. I do not know how it would keep.

3807. Do you know the railway freight for milk?—

3807. Do you know the railway freight for mile?— Id. and I.jd. per gallon eccording to the distance. 3808. And I.d. would carry it a long distance?—I sup-

3898. And Id. would carry it a long distance t—I suppose its would carry it a tax distance. 3899. None of the duly man have tried to increase their teads by buying such milk and delivering it to their conteners—Sec.

this followers were to do that you would be remained and the selected as departing from the yell established automatic the trade in Dollin's—If my endormers liner I got from the content; I does think they would take it. I have been been a selected as the selection of the first the content of the first the trade of the first the content of the content of the first the content of the selection of the content o

want is good mills. That system has never been small by the distripmen in Dukin<sup>4</sup>—No. 3960. You are not prepared to give an option as to whether, if you got it so file, a galact on rell safe in this winter, it would not pay<sup>4</sup>—No. 3004. Due by you kinnib people would be willing to sell

2004. Den't you him't people would be willing to sell at this price if they were schold?—In the country? 2000. Yea?—Not in the winter, 2000. If you give non a ceder, I will ley and accorde in few yeas. When you send your maffe cut with year and year maffe year with year years have no year. The property of the years and has cone years have year to have a year of years. The has been taken in our of the sam. 2008. He taken is seen at the batteryn?—Ten. He has

3607. Why don't you do that; he could not then tooch it?—He has to lake it out of the can. 3008. He takes it out at the bettern?—Ter. He has a saving son. I have a follow who carried a two-gallon can of water in the are with him. 3009. Mr. Wanner.—That would not be in Dullin?—

It was.

8010. The CRUMMAN.—Was it on the North side?—
I wan's divide the city.

8011. Mr. Campung.—It is a very common respice

to put on a little real and also very controls presented by without your knowing. It is also could not break it without your knowing it. It is could not break it without your knowing it. It was not a substructed many you across tell what he may do. I don't say that the majority of them are dishonest, but from time to time you will get men that you could not from time to time you will get men that you could not

a diabetical man you cannot still want be may do. at dun't say that the mapping of them see diabets, the front time to time you will get men that you could now witch, even if you were attitude on the saw with farm. 30th. How often are your yards imported f—about once a week. 30th. Who is your Veterinary Officer S—He does not come once a week. He turns up about there or four

tures in the season.

3914. Who inspects it then?—The Inspector of Cowstrain.

2015. The CHRINGEN-Mr. Collins, is 147—He cornec constimully, for. We have one impecter coming to us every way. 2016. Mr. CAMEREL,—Does the Veterlawy Inspector essente the udders of the cows?—Yes.

essemme the udders of the covers—Nea.

3027. For sold us that grains are poorer now than
they used to be!—Ne know that?—I would be giving
away tests secrets if I told you that—I am in the grain

and y freed secrets if I told you that—I am is she gath reads. The meshinary in the irresuries and distillation for ginning is much from now than it used to be, and the barley, instead of being calpeated to the old process, good through a different process and it comes out almost read.

Solo, 15 must be that they was the process.

500.0 If most be that they are failed the starch more three-uply cost of My-Tor. There is as 18th entirthment as possible left in it. The start of the production of the cost of Protection I also fifthe to feet cost to fine a path with the processor to the cost of Protection I also fifthe to dress of the cost of Protection I also fifthe to dress of the cost of Protection I also fifthe to dress of the cost of production for the winder are more flat as Torchard—Yes.

1932. Obviously the trade could not be straide on an time terms from head sever—Central years proting terms from the sever—Central years proting the property of the could be a first the country of the a core any gaves for the modules—In-t. de. Co. in. a work, a core any gaves from the contract the contract to the straining of the sake invited by winter modules—Take adding the number regions and a pin choice. We suffer selection of the sake invited by winter modules—Take selection of the sake invited by winter modules—Take policy modules and the contract of the profit software of the sake of the same faste when we save any first description between the contract property of the sake of the same faste when we save any first description to be when the contract proting the contrac

ocea, in their inly difference in the gince paid for the multi-7.6s, the price of the milk post down in the summer to it. a gallon. 3000. There is a reduction of 2d, per gallon in the numers—dd, per gallon. In 4d, is the standard price; I only give he. 2d. as my average.

Jest garden 1. Set as manned price; It call garden has 2d, as my average.

JEST, The milk yield is inspressed in the summer?—
Yes.

JEST, To what proportion would you say? You gove us the average milk yield as 14 gallene per cose in the winter months?—Tes.

of the average mility from as 14 galliers per cose in the winder mention?—Tex.

3229. What is the average in the summar?—I did not colcubiate that, I suppose two to two and a halfgalliers extea.

3350. So that you would have an average yield in the nummore of about 10 to 17 galliers per cow per

the number of about 16 to 17 gallons per cow per week?—Yes, 3601. And that would be 16s. or 17s.—that would be the result in money?—Yes. 3632. I took form the cost of your feeling at 1s. 44s, per week for the winter months?—Too.

per work for the wruter monthly—Xxx.

2000, And the next of diluters and other indicates

2000, And the next of diluters and other indicates

where the second of the second is common to an indicate. Then write for the second in the second in the second of the second o

22 weeks at \$40., 215 Sa. Sd.; took, 321 Sa. Sd.; took, 421 Sa. Sd.; took, 421 Sa. Sd.; took, 421 Sa. Sd.; 100. Tred. Mixrax.—Do you find any difficulty in obtaining dualty coulde in the markets?—Me. St. St. There is always a good sopply of fair shakey coulde in the markets?—There are a good but of them that are not exposed in the market at all, and they make the strength of the product between the state of the state

that are not expended to the market at all, and historic sent to Ringland before the local customer gots a channe to tay.

3000. That is illugal, I believe?—I believe so.

3107. Would there be say difficulty in buying a coverable to the tuberadin best?—I have been d from subject to the tuberadin best?—I have been d from

antipet to the tuberceiffs heat?—I have been from meteors relemany compone that it is not o true box. 2008. You may take it from not it is. It there are included in Language are one sold to the tuberceiffs (200). Be you think there would be any objection or the part of the desire or undroser in applying the lost, and bording the cover if the passed it.—They would not apply the lost in the market. The owns have to be put and apply the lost in the market. The cover have to be put

switch. 10 No. one course test to a outside excess the second of tiel?

No. he industed to take a revision amount of tiel?

No. he industed to take a revision amount of tiel?

No. 10 year not think any contenuer shreld take a certain associate of riel?—No.

2049, 00 course you toolisticin that if a cow is related and simplaced of the profession of the paths lead of simplaced to the profession of the paths lead to simplaced to the profession of the paths lead to the profession of the paths lead to the profession of the paths lead to the profession of the paths are not to the path of the paths of t

saming to the swear of the covy—Yas.

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whereoform is a disease on which a great deal of money has been speak its trying to permet are speed. Here is the nulls where he represent a set provided the services, and of you want the runs to persons that with-services, and you want the runs to persons that with-services are represented by the services of the ser

vital question than the one or the other, and I think the Government should assist, and the other 100 Government should assist, and the other of piego-pope, motion and some fever, they shauphtered all askinnic in control, but they find not give fail acceptualities for the control, but they find not give fail acceptualities for the control, the control of the control of the control of 2007. Per find Marrial and Tongo vitals, see very restoration, and they are of boards to the

see very reasonable, and they are of boards to the people forgang the cown, as well as to the public. 1848. Do you not think that the same form of importion ought to be reasonable to in the country as in the city?—Most despitedly. 3949. That those to the tentiness for the country sheetd be subjected to the secon inspection as you are? —Ye.

2002. We know nothing about the milk thes is sent from the century into the obj—the conflictes under which it is predicted.<sup>28</sup>-∞N<sub>c</sub>. When the predicted of 2002, 3401, and you think three should be the mean bespection as you have bree?—Text. 2002. The Challen method to the no-called Wildle 1002 has not i people mere infected with typicad?—Yes, 1002 the predicted of the predicted of the predicted of the graph of the predicted of the predicted of the predicted and predicted of the predicted think they would when they know how simple the limit they would when they know how simple the limit they would when they know how simple the limit they would when they know how simple the predicted in fact, it would be no harm if we all gib at it. it.

In Sect, it would be no barm if we all got at 30. 1806. Mr. O'BRIES.—You never tried sending out mik is said booking.—No. 1806. Let being done here?—Yes.

SECS, Extensionly No. No. Section with the milk sect. Heavy got are to teld solution somples of the milk secs. Heavy got are to teld selection for section for the section of the section for the section for

The result of the property of

other, sent the name-over magat owner was no one of the sent of th

of an independent records align seen sensor a sample, read recorded the unit is below releasing, the independent records and the independent records and the independent records and the records and the records and the records and the record records and a sample scheduly salton. For have never tend that for this purposes. Now, but I was thirting of duting so.

1800. Do you have any definently with your materials.

series. In you care day definedly with your endomore short not pathing up in the securing to take in the sulk?—Yea.

3868. Do you have to leave ears at the doces sometimes?—Mo.

3868. I reppece most of your contemes get up

3864. I regions must of your contoners got up only a. Because on artificienthical skey do, but in the other districts we arrive be girls such for the millermen to cell them, and that somes a lot of driky. It cause no musch delay that we have to send an other out in the morning.

3966. You do not lawre cans at the door?—No.
3966. Do you think it would be possible to have
managed depote actuated at stoted places, which would

by be utder imprecion, and then ment that everybeids of should send most there for their affil. All the mills overall come into these deputs from the centry—I do not define to into these deputs from the centry—I do not define the process per mill very term and the centry of the centry than you can supply it laber as a possible—I m. .

500.8. I may very that if we could self mill in the centre round at the per round at the per round at the centry of the centry

as note on a profit-Time. If we could still mit in the On Ainmerio in side joe; global will his pers round at would pay on hetter than making braker out of it, and the most like or Jd, is then for corriege, at would are profit in the profit of the profit of the profit Jobs, Supposing you had such an organization for the distribution of the male, and all the milk earns were will?—How for it this at the present time most of the construction in contrast the work.

very well?—How to it that at the present time root of the createness in contension with Co. Limonich kern colly about two deliverses in the week, and that they are enabling it to cone areament, and vely you any you become the contension of the contension of the content and the contension of the contension of the content in 1900. What I mean to say it, rust that the conti, in 1900. What I mean to say it, rust that the conti, in 1901. What I mean to say it, rust that the conti, in 1901. What I mean to say it, rust that the conti, in 1901. What I mean to say it, rust that the conti, in 1901. What I mean to say it is a global for it, that it would be to so out it to this erroscope. In our 1901, and the continue of the contension of the contension 1901. The areasy price all the year round if the it, as allows.

per uniter you have very good coors which gone good for the suit. So would pay as to profice it in the first the suit. So would pay as to profice it in the text that the suit of the suit

whatever, capacitly berie sold, as they are very injuries to fallblare. That we has opening of its. I injuries to fallblare. That was has opening of its. If and applying to the property of the second of the and applying to the property of the second of the sold a helf miles at the very farthese. Office its boson prope seeds—"The milk these a clean content of the second of the second of the second content of the second of the second

half rudes by out?—I she beatine off the mills drivened in the object is the mercing conset up in the evening. In all the consequences were the substitute of the mills—the charmang it get in the transport to the see opinion on thes. If the city durprace give up anything mills, the only would able very latest of mills the charmang is given and the very seed of the contraction of the consequence of the contraction of the contr

across our ormans wecognosis—Less use no firm of peecerships in your dairy?—No. 21 use no firm 46%. The Dublin condecepter do not use it, as a note—Sec 1 laws more who note.—No. The mile 36%. The press magority do not?—No. The mile within from the cores in the meeting and delivered, said the same thang takes place in the evening. 50%. Which is the preservative most likely to be

cond. Proces in the preservative most likely to be used?—Bords sodd.

2079, Miss McNami.—Do yee know whether the price of mild has changed in Dublin during the last breaty-fire years; 2 mean the stilling percé—Yes.

200. Hen it increased?—It was darret.

3063. Generally speaking, I suppose the working chasses in Dublin are saming higher wages than they were?—Let.

3082. Suppose it should be accessary to increase the price, would that be a corresponding burdship on the working decease—No, the working decease can affect to

working decourt—AD, the Working closes can affect to pay for their milk at the precess day prace.

3868. The CHARMAN,—Or own if the price should be necessarily introseed because of the interessed cost of production; if now regulations were mode which might involve increased captains in production, do you Mr. Jony Young,-9th Jonney, 1913. think that that would in any degree lower the con-

somption of milk smong the bumbler class?-I do not believe it would.

3884. Mr., Castrattz, —You mean you believe that if a man as getting twenty shiftings a week, and that you intecess the price of milk, it will not be a har to his Mr. Jogn Wanspox, M.s., examined.

prophosing it for his children?-I do not believe it Sint. I do not agree with you?—It may to a small 5996. Sir Sunware Woodnoten,-I suppose the who note mile for his children would me it still?—Yes.

3887. The CHARMAN.—You are assistant principal at the Marlhomush Street Training College, Glassevin?

3568. And you have had the advantage of paying visit to Copenhagen in order to inspect the conditions under which mult is supplied there—Not in order to inspect the conditions: but I was in Copenhagen. \$989. Took it on a tour?-Yea.

3990. I would be gled if you notif give the Completion a buttery of what you now on that consultation —a new prepared a stort attenuent, which it will reid with your permission. In the year 1973, Mr. Gunni Bosel, a premisent butter metabant of Copenagon, had he attention disorded to the shackingly but con-dulant of the milk supply of the city. The cores were kept mostly as an adjunct of the distillence, on the rates of which they were ful. remore or wood they were no. womentgmen were unable to obtain pure clean milk, or, indeed, milk of any kind, unless they paternised the spirit stores of these mistilleries. Consideration of this state of affairs led Mr. Busck to found the Copenhagen Milk Supply Co., with the small capital of 4500. This was thirtythree years ago. To-day the capital exceeds £25,000, and the Company amploys over four hundred servants. The motto of the Company is "Ren Mack at smale Korr "-pun milk from sound cows and I propose to describe as helefly as possible the means adopted to attain this end. The Company owns no cow. The nells is obtained from a number of selected farms in the islands of Zeeland and Palster. These ferms grace about 5,000 cows, and the quantity of milk deals with and which are Appendix A.:-

"REGULATIONS FOR THE SUPPLYING OF MILK TO THE COPENHAGEN MILK-SUPPLY ASSOCIATION

"All provender given to the cowe must be perfectly fresh and in good condition. It must be free from "In sommer the cows must be turned out to gram, and be given nothing but gress and cloves. "Only in case of processity may they be given dry

forage and chopped barley, and that always in the open It is fortedden to know them stalled during this "The farmer must arrange with the Somety in

to give the oows during the winter. On this point, however, he must, in any case, adhere to the following rules -

"(a) HOOTS.—Carrots and bectroot should be given in the proportion of his backels (16 liters) per Cown which supply milk for infants must only be given sects in the proportion of balf a bushel. Turnips, cabbage (observaves) (Washi-mbi, i.e., cape sabbagel, sweden, or the tope of terrips or kebl-rahi

" (A) CAKE,-Only off and southwer (toursered) cale rany be used in the proportion of at racet 1 b.

(Dunish), with at least 5 lb. (Dunish) of com and bran. Cown supplying milk for infants may not bare

" (c) All refore from distillaries, etc., is forhidden. "Before stabling the cows in the autumn, the tail, kinds marters, and udden must be shorn. "The calving periods most be so regulated that the questity of milk delivered to the Society during the mouths of Sestember and October is not less than the nurses quantity sepsiled during the first four

" THE TREATMENT OF THE MILK.

"The milking must be cerried out with the greatest care and the greatest cleanlinese. Speaking governily it must be done under the following conditions:-" (a) The milkers during the milking must wear "(a) The introes along too mining now wear a special dress, and be provided with a towel, to now when they need to wesh their bands.

"(a) The bree must be well lighted, especially

bebind the cow, in such a feature that the militer can do bie work property.

"(e) Immediately after milking the milk must be passed through a metal sieve, covered with a cloth of slean and fine lines.
" [d] Thereafter the milk must, at er

"(d) Thereafter the mint mure, as every assession of the year, he possed through a retriggrating apprimises, which forecas its temperature to 4 dg. He mure he kept at this temperature until at leaves the farm. (a) The removal of manure must be carried out

un the morning after milking, and be finished in the afternoon, at trast one bour before the evening milking.

"(f) The milk from cowe that have just come into milk, that from sick cowe, and also that from most be stored separately in such a fushion that it can neither he wixed with nor englounded with the

"The furner most always here in store a fresh supply of sec, of at least 30 Re, of sec to every 100 litres-"He must use the 'Lawrence' apparatus for the

"He must use the Lawrence appearance of persons of critical states, which appearants the Boolety can deliver to him on his farm." The contrastors are bound upon their word of honour to reply to all the Bockety's inquiries with seference to the milk nikels thay copies. "They are bound also to allow the veterinary officer of the Society to import their byros whenever he judges this to be necessary.

" Cows certified by the veterinary to be subcrealous immediately separated from the hard and " All heasts beed for milkers must have been sub-

"The contractors are bound to expervise with the

The consentions are bound to expertise with the greatest arm the health of all present living or employed on their farms, as well as that of their own facilities. They are bound, in case any infectious disease should appear, to notify the Society at once, which will furthth take the proper steps to shate the sickness. "In this case the Secrety declines the milk until overy trace of the illness has disappeared. The Society however, during this period will pay for the milk although it does not measure \$5. "In case the Society discovers that the milk

supplied to below normal in quality, and, therefore, not supliable for sale, it reserves to itself the right to refuse it without compromiting the farmer

Such are the principal conditions of the Copenhagen MBL-Supply Company. Together with those which it is has not been throught necessary to teasedate, they must be appeal by the contenting farmer before he begins to supply mits to the Society. It will be observed that

these registrons we extensibly storic but I was independent with a set of the post of the

and the control of th

Mr. Bands was complaint in her disappeared of joint money of the insight physicistus, we include and to the compared the insight physicistus, we include and to the whole passes are presented in the property of the physicistus was presented and make a property of the physicistus of the property of the property of the property of the different possible, and by configure it measurables, we are different possible and by configure it measurables, the high make the truly course for particulation is then in our the first ordy course for particulation for the intertal particular property of the property o

Seek. By an assumable sold-drivine of blotzer, the rails: to bettled it as rails which has to be seen to be believed. So doese them are switch und from home benefit each best doese them are switch und to man healif each the stopp of the state of the st

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bord early merry term usual mixed common combined with a service of the common common compared to the policy of the common common comtract where and it is from section of the value. The common common common common common comtract the common common common comcerning the common common common comstant in terms of the common comsistent to the common common comcerning the common common comcerning the common common comsistent common common comtract common common common common common comtract common common comtract common common comtract common common comtract comtract common common comtract comtract common common comtract comtract common comtract comtract common common comtract comtract common comtract comtract common comtract comcerning comtract common comtract comcerning comtract comcerning com-

3995. The delivery ware, which much recemble our

and the traversities generated was the street, and the street of the str

where the first lamined the three points in the major where the depth of the points of

when it is a smooth multiple of the sales of the manner of the sales o

year pormission, as., I shall head it lie. Size states a 180°C, Tan. "Lances 180°C "has a drawfall with "his state of the "his states a 180°C, Tan." Lances 180°C "his states a lances of the states o

2000. The fact that the Danish currency and meaages are both different from those in use in this

country introduced a difficulty when occupating prices. It lowes, however, worked one the following. On the Daniels prices I see stree, as they see taken from take made on the spots, and in the case of the in-cutfled stiffs they are taken from the Company's price line. This is correspond to equal to Become rain 2 line as equal to 12 parks.

Prices of Mills, etc., from the Oreenhanes Mills.

Prices of Milk, etc., from the Copenhagen Milk Supply Co.

Ice-cooled and filtered milk, from exe-15 ore per litee or 21st. per qt.

The same milk, bottled—
If one per later or 244, per qi.
Children's milk, bottled—

21 ore per life, or 3\(\frac{1}{2}\), per qt.

Infants' milk, as above described, pure (bottled)—

24 ore per litre or 6d, per q4. Infants' milk, specially adapted according to quantity of water and super— 28 to 45 ore per stand, or 6d, to 6d.

but through the sid of the Soulety for the Protection of Infania shows stands are sold to the poor for IS era, or shout Md. each.

No. 1, or Whitping Cresm, commaning 30 per cent.

1 kr. per litte, or hr. dd. per qt.
No. 2 Cream, contidining 20 per cent.—
80 one per litre, or hr. 0gd, per qt.
No. 5 Cream, 14 per cent.—
60 one per litre, or 10d. per qt.

Grean from seconded mills is said for 1 kr. 60 on per great for the co. 50 kr. for mills of good here pend to the produce for his mills of good here and to the produce for his mills, but full information on the post of the control of the control

service profes in critical profes of testinal in edge. Sept. 2002. 2007. The second profess of the control of t

work?-The company is a commercial concern, weeking

Mr. John Walnock,-965 Jensery, 1918. 4607. Mr. Camruzzz.—I don't really think I have any question to sak, but I have twice seen what has been described by Mr. Warneck, and he has given a faithful

profit. It over pays more than 5 per cent, in signific. That is one of the Articles of Association. Any profit above that goes to provide milk for the ov, os for mercased beliffings, it has given a reasonable return for the capital invested it receives no subsety from the State or 6005. And it receives no the mees?-None ulusterer. the sates?—Note utasherer.

4006. Have you assertanted how for the peofits of the Company have enabled them to sealed the poor by gring tails free or cheap supply of mffe?—I did not

get any figures, but the information could be obtained from Mr. Busck. from Mr. Buses.

4007. Have you accretimed what price is paid by
the Company to the producer?—6jd, per gillen, free pagy to the producer?--6jd, per gellen, free That is corrobousted by Sir Rider Hazzwell in

his book.

3038. Sir Serward Woorscour.—Does the Company
pay the 5 per cout.7—Yea.

4000. Mr. William,—The farmer has comparatively
small expects. He has no wherhard appendix 9—No. the Company pays them.

4000, All he has to do is to see that his cowe are 4000. All he has to do in to see that his own are tope clean and milled un the manne specified?—Wes, 4011. The Company have to pay out of the increased prot of the milk all these were beavy expenses of supervision and of sistemance, and of destroying milk also there is illness in any of the familles?—Wes,

ulan three is allosse in any of the landles?—Les, 4012. It is all born by the Company?—That it is o, 4013. Can you tell us what the population of Copenhagen is?—About half a million, or 400,406— mosts the same as the Dakkin metospolstan area.

by nail.

4615. You have seen in operation the processes you have described?—Yes,
4616. I have some small experience of cooling mills,
and in this country is routh for a country through the properties. In
it is a coulty up there?—The Company have their country. n so costly up there?—The Comp ice-making plant on the parmises. ice-making point on the permises.

4017. I am specifies now of the country farmer 8—I counts tell you, but on the Confirmed see is used more generally than in this country, and presumably, therefore, it is cheaper,

41 degrees is a very tall order?—That is the regulation, so quoted by Sir Rider Haggard. The Company have to queen of yet more insigned. The Company wave then own ne-making place.

3019, Prof. Marrant—The people there would got be from the large recoveraby—That is so.

4239. That was where the Corquary got their lee before they pot in their plant?—I've, but there are a stiffer about they recent ago among the men who brought in the in-market. in the see, and the Company par up blein on plant.

6221. Mr. Wrazoe,—I thirth you said this Company
has been in existence for thurty-three years?—Yes.

9222. And all this time they have been, stony with cthic people in the same neighbourhood, rudeavouring to crafficate tober-relicain among the until v.—Yes. 6023. Have the results here fairly unfulnetony?.—I understand so.

6024. Do you know what the effect apon the inher-9004. Do you know until the effect them are inser-cains death-rate has been among the people?—I estimate sunwer that. They claim to have reduced the infantile. mortality from \$10 per thousand in 1880 to 164 per thousand in 1906. thousand in 1900.

6020. It is still very high?—Yes. In Dublin last
your at was 143, and in 1906 the Dublin rate was 150.

per thousand

6036. So that there is still much to be done?-Yes, but they have done unch.

4051. The Chancear, I understand you are a Medical practitioner?—Yes, principally with regard to children's discours. Do you held may public appointment?-Not a 4600. Do you ledn may putsus hypomusical re-use a hospital appointment. 4600. Nee not appointment under the Medical 4600. Nee not appointment under of lectureships, if you call shows public appointments, and I hold appoint you call shows public appointments, and I hold appoint your character character organisations.

described by Mr. Warneek, and he has given a marked description of what hake place. This Company is working on a gigantic sente?—"Yes, 928, The Chamman, "What is the temporer?—They dealt with shout 6,000 galloes per sky.

4000. Mr. O'Benes.—That is the quantity my creamery scale with in the summer. Do they use pareliment corner—No; they use cork, but the cork is 4000. You said that they got 6,000 gullons per day?-

4601. Do they get an equal supply all the year round? They provided for that in the regulations hild down, 4802. You read out that the farmer had to undertake ooms calvarg in September?to have orrain to have certain cown entwarg in september.
September and October, "so that the quantity of milk
delivered to the Society during the manths of September and Ortober as not less than the average quantity supplied during the first four months of the year." supplied during for first incommon of the year."

4033 Is these milk supply proofsably the same all
the year records—Tex. They make butter of the
surplus cream, and they sell a large quantity of buttermilk, there is a great decayed for it so 1.5d, a quart

one.

9034. What do you mean by hetternift—do they make their butter by separating the cream as we do?besterrolls is from mean. 4035. That is penciscally the same butternolls as we 4000. That is procuesary the same noticemen as we nev in our estamories?—It is made from ercam, not from whole milk.

4095, They get 13st a quart for it?-Yes, that is an enormous price?—They get that a heverage. I pay ld. a quart myself for 6088. You spoke shout the temperature test; is that test to see what the temperature is?—The tempera-

being opened being opened.

4000. Are they mostly large farms where the entitle set 2—I did not go on the farms, but I understand that they are. One contained 1,100 coses. they are. One contained 1,100 cose.

6040. That was that particular form for infants' milk N-res.

4041. The Busek pall is not used by the average former S-No. That is only for the industr' milk.

6042. The average farmer cools down has milk with

ave also a black and white oow 6045. Mr. CAMPRELL-The milk does not come from

unit con S-No. Strendare Woognoosse.—Age there any special means of keeping milk cool until it serves so the central daily?—The reliney was see cooled by 4047. Mr. O'Burry,-And the earts that take it to Here is no illustration of a cart, and it looks an

a slightly chapper rate, 4649. The other, the Copculargen Hilk Rapply Com-pany, as the permiser Company 5—Yea, and I under-stand the premier Company of the world.

#### Dr. Etta Wees comit

4054. But you have experience of medical practice amongst the poor?—You, chiefly with children, 4054a. Have you formed any opinion is to whether or not the children of the coffining artison and labourer or not the changes of the centrary artists and modurer in Dublin are getting sufficient milk?—I consider they are very insufficiently fed. They don't get coough 6055. You have come to this conclusion from personal Dr. Ella Wass,--9th Josephy, 1912.

4000. Do you think that the fact of their being m-sufficiently fed with rafk necessarily will have an effect on the strength of their constitutions and after development?—It has an ammediate effect in the may of producing rickets and discuses of that magne, and a disease of that sort has after effects all through the children's lives.

4007. And these see to a large extent preventable diseases?—Yex, with peoper feeding.

4038. And cadmany care. Do you think that the scarcity of milk is the result of the powerty of the purents, as inability to procure it at a reasonable price? —I think it is that to the high price of milk no reference to the wage carned by the people. When I speak of the example of sight, if most a security of rich milk. The important element in milk for salarity in the fat, and the people I me resident of they milk at the designest possible prices. If they find they can as the fast, and the proper I may speazing or tory mine at the choosing to possible prices. If they find they can get it for less than 3tl. a part they will buy it is that chop, quite requalities of the foot that it is milt of a low far permetage, and it is the effect of this class of noith on the children that produces them.

4009. Are the parents in charge of the children considers of the owfa that mise from the use of this feeding —I shou't think so. Hill: is milk to mas seeding.—I stort thruk so. Milk is milk to a poss person, no matter abus the first percentage is. If you definitely colled it skiramed milk they would made extend that it was a different thing. I had personal experience of a case of a child who was personal experience of a case of a child who was persistently not guinang as weight.

the market that she was buying a part of milk a day
for the oild. She was not able to afford more. I for the cmid. She was not able to abord more, a tried to persente her to buy more and she could uce, I found she bought the settle in a small dealer's clop which was not registered, and I thought the milk was which was not registered, and I thought the milk was of a poor quality. I get her to have the milk in a shap where the milk was reliable and the child began to gath weight. That is a sleen demonstration of she to gath weight. That is a new occusionamen or sev-value of a high fat percentage in the milk for children. 4000. Do you find condensed milk largely used?-Yes, and in that her a great danger. A great many hrands of confound milk see separated milk—skimmed

milk with a high sagar percentage. On the came, if it is full milk, it is described as full milk, but if it if is but must, it is described as one must, the is is skitused milk, there is not it bego letters, "skitused milk," and the people consider that if they buy a can of condensed valk they are buying perboy a cin or conscised sink and are up to the full milk, with a full amount of cream up to the ordinary standard. I have told the people, "you are The separated received condensed milk is particularly The separated received constitutes a great amountable for children, and it constitutes a great danger, as that it is considered suitable. It is used indiscriminately, and the result invariably is rickets. 4960. Have you found dried malk used on a sub-sistence—Very little. It is not well known, and not well accepted. I was adod when a student to make same experiment shoully after the Hatmastee brain!

some experiment shoutly after the Hatmaker trains first same out, and I tried to weak it with some of the poer people, but they did not sace for it. They would much rather have condensed mills, I think, 4002. You have made no companious between aried milk and condensed milk -I thruk in most of the milk and condensed milk —I thour so most or the good brands of dried milk the let percentage to fairly togic. It is not, however, generally up to four per-enat. Of course, an adult can chink a milk with a cents. Of course, an agret can chink a more with a lower fast percentage and find it a good beverage, but for the indent, four per cent, is low enough. In you've

4023. Do you think there is a darger from the people using substitutes, not realizing what their con-stituents see?—I do. I comider that these substitutes smooth section as a commer that these summittees should have plaints insmithed on them what is the fit percentage. If they are of the same obtained composition as a himmed will they should be called skinned milk in words that the people can under-

4064. Do the people scaline the value of milk for nowing children?—The infant comes first, but the older children are let take the run of the table. 4665. And they don't probably realise that the milk is an assential astacle of don't—to a broary they consider it as a thing that a very good for the shiften. If they can affect to buy it, but they don't think it is

4006. How his do you think the price restricts the one of mill: among the people?—It is very herd to podge that. I make a saledstion, that taking note at foruseance a quart to Dublin as the wanter, it would cost one shifting and sixpence a neek, at least, to being up on latest—to give the child sufficient milt—sug one

ages. Mr. O'Beurs.—And probably several oblition do study bounded is there rould be two or ince-tablica?—I can speaking of the child under traderishtren?number. There is only one infant at a time, except in exceptional cases. The feeding of na infant until it is twelve months caused be done much unfor one

4008. Amongst the poor propie, you find in mostly households two infants that would be the better for the

4060. To the extent of one shilling and sixpense 4000. And sixpense or ninepence for the accord?-4971. So that the conscientious mother ought to give two skillings or two skillings and therepone a week for nilk for the young children?—You, or two

shillings and sexpense, and that is a very large amount 4072. The Custreev. I was rather dasappointed to discover that in certain districts, where milk is offered to those in more or less indigent corresponds at a grantly reduced price, they don't seem to appreciate it as they should?—I have found that also.

4073. I am alread there must be some gave defect impuledge?—There is. They don't realise the 4074. They would not millingly deprive the children of it if they approximed the benefit of milk?—No. I

know where associations gove free milk, and the women would be deterved from letching the milk on 6075, Mr. O'Batter, ... That is due to ignorance? ... Yes,

4075s. The Chameter.—It rather discounts the hope 407%. Inc Unitiber.—It hasher amounts the more of inducting them to feed their children in a early intelligent insides, even where the cost does not come in as an element?—That is one of the brings that we hope will improve, and I think them is through an

4076, With regard to the conditions under which milk is given to children, do you find that there is ness?-Do you mean in the degree or in the borned ness:———by you mean in the desiries or in the bismost 4607. In this horses.——Yes, I do. I think a great dail of the contamination of the milk, for which the dairies are smeathers bismost makes in the horses, and also, I thouk I should add, in the drift shops, where milk is frequently retailed to atty weekel mainly mer absolutely open. They are not covered, and the difference is not in time after. dipper as got in time after time without being got into

6078. No presentions are taken to avoid contomina 6973. No presolutions are tentin to avoid conformation?—No. And in the bostes malk is kept in open vessels, and in some bosces that are duty it as also lately impossible to keep the well come. That also applies to consicused and dried milk. 4979. Mr. O'Brans.-Not so much to the dated malk? -No, nor to the highly sugared condensed milk, but quite so much to the usu-sugares condensed milk. 4060. The CRAMPAUX.—The poor buy malk in small shope—they go to poor shops?—Yes. 4081. And the result is that none of the precentions

4082. Is that again the result of poverty or ignorance?

Powerty to a great extent, and partly ignorance of the fact that it is the best scenessy in the end to buy

683. Mr. Wilson.—In your experience, do you think there is only change in the quantity of milk since in used energy the people that you are returning to?—Sily experience is not very long—shout five yours would sover the Deblin part of it, but I think on the whole

Dr. Bala Wiss, -- 9th Jawarry, 1922.

it is respecting. I should think it is not disconposing. I have record to believe that general inowindge on the resion to besieve that general inowadge on the is improving within the last couple of years. What price do these people per?—They pay at 698). Lady Evinana,-They get had milk?--If they

mills must suffer 4084. Have you may reason to suppose that they only get skimmed milk?—I have no reason to assert it, but the fat percentage in the milk is not so high. 0007. Mr. Witson.—When you change from a milk of that close to the better close Dublin milk, you see an improvement?-Xee, in the child.

6086. So that the better clear milk is the change?-

4680. You have not very much finit to find with the better class milk?-No. better class milk?—No.
40%, What experience have you of pasteurised milk?
—I have a fair amount of experience of it, because I om
Medical Officer of the Pasteurised Milk Depts. I inspect there once a fortnight. I have not found any of the evilt that are remedimes attributed to pasteurised suffic. I have not found any direct case of rickets or secrey. We have not run very long, but I think we

scorey. We have not run very long, but a name we have run hong stough to discover these sense if they existed. I do not, however, consider pastentising an ideal method. It is only the second bow method. I think the coaling authod liftilities upprince, if it could 4001. That is what you would like to recom-4001. That is waste you need the contain be done on the method adopted large in Dublin. That is in the small bottle method. Bodin made experiments about

4002. It appears to some of us looking over the endeave we have laid, that at the present time there is a fair supply of somewhat indifferent milk?—Lee.

4000. If the quality could be improved, would it, to your openion, he better to here a small supply of good milk, even though people one less of it, or a larger supply of somewhat indifferent milk?—That as very hard to of uncovat tachfirms mater—tass is very time we decide. If you improve the quality of the sailt and runs its price I shoult think B will teach the lower clauses at all—I don't think they can pay more than they are paying.

(1004. He Commun. I was rather interested in what

you seld about the condensed milk. You do not con-form condensed milk? Condensed milk has all the common constraint anistro-decision talk has all the elements of stridings, which is going one warse than posterosima. That is to say, condensed milk used for a long period without the addition of fats and anti-sectation should be condensed. Goodensed milk is a very good thing in epidemica of unmore distrators, or an epidemic of hyphoni, or when milk might be con-loweristed.

4995. I was bound to say that beertefore it has not a good obseroter?—I only advise people to use it not a good observant—1 out; extract proper to use it in a short period.

6006. In it con-support?—Most of the breads are highly support. The only condensed with that you could consider at all fit for obliders in the uno-support

4007. There is not much milk in Dublin containing above 84 per cent. of \$145-Not much. 4008. Very Butle; in fact, the bolk of it se below that. Do I understand you to any that that is not sufficient for californ-feetbally not for infants up to the upper california. The saddlike of ceram with the best cover milk is advantable to, length appearing the best cover milk and advantable to, length appearing the contract of t

the best cown little as accounte to termin it appears tested to the equivalent human milk, which coefficies are per cent of fit. In the case of cor's milk, I finnt har per cent, is thirty good, but fire per cent, is better. Of course, if the people understood that the for could be supplemented by means of cod larger of and the could be supplemented by means of cod larger of and various substitutes it would be better. 4000. Would you give sed liver sel to very young of dress. Yes. I always use it al I have to advise one. children?-Yes. I shwaye use it al I have to advise a drawed milk. It is the best make-shift you can get.

4100. Prof. Narrasa.

Tes, or in small deeps. You cannot give int
criminately to industs. We are not speaking of ideal
criminately to industs. We are not speaking of ideal
and the shifteen, but of the best ne can get. 4100. Prof. Margan. -- You give it as an emploion? eriminately to infants, we propositions for children, but of the best we can get, perpendicus for children, but of the best we can get.

400. The Ciccinum.—What was the covering of sub-stituting sed the width-Bossone for people grid it for milling at the dispensary. If they had to purchase the covering would not be very much—sate very table to the covering section of the covering the table dispensary, so that it is the most occurrient thing to add to the concentral milling of their in the limit color. I do not bold it my as an ideal constitute, but to try and get in the fits some very if it is it may be to try and get in the fit some very 4460. Mr. Custratt.—I have used red liver oil very accordately as a coloration for the conthe title has reason to it went to have one over one, and they do not think riskets could be prevented by fair. 4408. Prof. Marran —Will the use of fate powers rickets?-I think so. Bland Sutton made experiments

4804. I did not know that the one of int would not on a preventive. Do you mancrate infuntile diarrham with durly milk?—Prelly, but not entirely. I consider a great deal of at arises from the habit of children picking up dirty things on the floor and licking them, pearing up circy turngs on the more than poung them, and dropping their constitute on the floor and sushing their fingers. I am being led to the opinion more and more every day that infantle distribute does not arise cuttinaly from the milk. I have known it to arise even an private cases in which every possible care was taken

with the milk.

4105. Hilk doled out in small portions is more likely to be duty than milk sold in bulk?—Tes, the more it is bandled, 4105. Exposed?—Yes, that is why the bettle-milk is such an advantage, even without post-unisation, if the bottle is clear. If milk is subjected to a high is stell all develope, even without preventions, as the bottle is clear. If milk is subjected to a high temperature two things happen—a frequent is destroyed, and also a certain amount of easeln,

phasphates, cto. 4107. Mr. Coursexx,-You are engines to keen these 4166. Mr. O'Burry .-- You work a good deal among the poor?-Xen: I have a dispensity in a very poor

4200. Are most of the industs fed at the breast?-A large portion.
4110. For how long?—Almost up to a year,

Mish for his long—Manus up to a year. In this year of most of the long long of the long of Ostmered purridge improves the quality of the mother sailt. I do not think mile improves the carding Outness perhaps imposes the quality of use moments with. I do not think mik improves the quality of alread mik very much—that is to say, that soups containing the same percentage of particles would be as

4114. Ms. Camesan. Slimmed milk would be a good lood?—The mother countries fats too. 4115. It contains all the pesteins?-Yes, but not the fets. 4116. Have you may views as to the value of expanded milit as a food?—I think for adults it is very good, but not for children.

4117. It is good food for minital- Yes, but not for shildren.

4118 Mr. O'Brans.—On the moster of the con-densed milk in tran, you said, I think, that the condensed separated milk was not labelled as such?— I do not any that it is not labelled as separated milk, but these words convey nothing to the poor people. 4119. Because I have noticed lately cars and time with the words "condensed separated milk" put on thous?"—Xee.

4120. It was not so a few years ago?--- Perhaps that so, has the words "separated null! " do not convey is so, but the words "separated rails" do not conve a sufficiently plant idea to the poor. It should be called altronous mile, and they would understand it. 4222. That is a master for chestical—Lon-4222. This is a master for chestical—Lon-

a man esercing the average wage, and who is a good breakers! He allocates such week so much for the bread, tea and super, and a certain amount for botter and becom. He gives out to the wife, as a role, a certain amount for the previsions for the week. If be is a man that is particularly good to has family, he only manrous a small percentage for tohacco, and gives his wife the rest; he keeps so much humself and hands over the balance to his wife, who surmare sold hands over my carette to the wrot, was along a shoot the paying of the sent and buying the pro-visions. What I wanted to get at was, if the most of visions. What I wanted to get at whe, a we will for the bosne were to realise the food-value of milk for has children, would be be Michy to put it on a with the things that were required for the week?-1 with the things that were required for the needs—1 do not think they specify what the write is to buy.
4123. No, but the wife says, I wast so much more to buy bosses things—1 slid that the wide says, "how much still you give no." nead then she makes the best of its. The instant does not interfere with repeated to the graphenee. He grantles if the does not interfere with repeated to the graphenee. He grantles if the does not interfere the same part of the property of the grantles if the does not be the grantles in the grantless in the grantl should be sent to the personned milk depot, but that

4124. In the matter of rickets in children, has at ver been known that a child brought up on the known has got rickets?-It is known, but it could only be of the quality of the breast sully is poor.

4325. There again it is the loss of fat5-You course, tooleds is resisted by want of fresh nor. 4120. Prof. METTAN.—It is occasionally congenita)?

—I do not think you often find that. 1197. Se Syrwary Woonners ... The mothers on a

the, time how to propose the own's milk so as to make it unitable for infants!—They do not. That is unother point on which a great deal of ignorance exists but that is implement on the think that is implemented in the point of the proposing new, I think. On the whole, they are more likely to over-feed infants, thin to under-feed there. They do not dilute the rolls, sufficiently; but 4128. They give it in a bottle with a robber meale? ... There are some long tobe bottles, but they me going out. 4129, Mr. Winson,-You would like to make them

4130. Sir Surwarz Woodneese,--Howe you seen a disease from using impure suffic such as swellow plands?—In many cases it often does being that about, but it could come otherwise. You could not be outurn that the infection comes from the mulk. I think it is very often the charmel of infection; but you could get it from breathing contaminated als. etc.

#### Mrs. M. J. Courseur expinited

4351. The Createstay,-You are interested in Yes. I have been working with it for some time, but I was intreasted in the subject of milk below the Asso-

4102. You have a wide knowledge of the conditions under which the poor live in your own immediate dis-scient?—Yes, in the neighbourhood of Trim and in the County of Meath generally. is the best of the comparison of the magnetic states of the country of Market processity, for an execution a supply of milk first the states of the country the people who have become owners of the genes lands have mixed the price of grading in the summer from £3 to £6 20s. in are, which it a probabilities price for a poor meas. I think the great secrety of milk all comes from the fact that the farments are not larging as good cows as they used to. They rather prided them selves in the old days on having the best millor. Now, when a man has a good militor, he is offered such a tempting prine that he sells her for £19, £20, or £22, and buys materd a cow for \$10 or \$12, which will not in the other case they would give to their form labourers who have no cow. You extend induce the men to long a good cow. They will sell her and buy an infame s good cow. They was sen nor and only and it is in one. I think the shortage in the supply of milk is in many cases that to that. If we could only induce the many cases due to that. If we could only induce the people to go leak to the old system of keeping the good

own there would be a big improvement.

4184. To what do you skinhole this peculiar change?

The price they can get for the good now. There is bush praces for their miles count. 4135. It seems recommissily unsound, this ne unsound, this new

It is absolutely impossible to induce them to retain their cood milkers. I had nather a fight with man at home 4836. They sell them for no office reason than this they can got rether good prices for them?—Yes, and they key a chesper now instead. One may kell, "I they logy is changer now instead. One may said, "I see got a near for £16, and also will do the just of well." Be told a good over and bought on infector one that gives how little tralls, and that in of a poor suality."

Local Authority in reserving a certain postion known as "the cost plot." That is only founthe and practicable where the lead is being divided. You have not reached 4137. Have they pressing need for the money? Not more than ever. Eggs and butter and everything like

that, they want to sell. It is want of proper education, 4188. The education same to be going on in the inverse ratio?—Yes. 4130. With segard to the children of that district, do you think that they suffer constitutionally from the way in which they are brought up by their mothers in their only infancy?-In the very poor cases, like in the carry inlaner?—in one very poor cases, one in our lowers, they have no milk at all. They buy some con-

densed milk. Even down with you in Trim?-Yes, in the 4141. What is the price of milk in your district?—It as 7d. a gallee, I think, but I am not really sure. I do not exactly know the orne. The pecule think at in too

4149. Prof. Murrays.-What point will they give?-4162 From NEWFAR. was pulse and early hard for They buy a pennyworth. They get about a girst for that. It depends on if they are good people whether they will sell it. bey will sell it.

Old. The Circumax.—What sees around supplies
rim?—Thim is only supplied by one man, who has a arm near the town.
4144. There is no competition with him .- None statover.

4145. Does he charge a high price?—Yes, he has a
remembers demand for his milk, and he say charge what he likes.

4146. It has been suggested that the Local Authority might be empowered to secure hard on the southers of the town for the purpose of cashing there to carry on a dairy to supply the inhabitants with mills. Do you within that vauld be workeld—"Not, it has been done. It is the only way out of the difficulty of recursive \$140°. Do you may it has been done—"An, it Kells The District Council have taken head and clay are setting it to the poor people for the grazing of their 4140. The solteme I refer to would be different. You

to referring to Father Berry's scheme?—Yes.

4149. This suggestion is different; it is that the Local 410. This suggestion is different; it is that the Lord Autherity should be compored to obtain hank some paleonity to supply milk to the people of the several— I do not think it would work. I dirth the other is better. It is better to let the poor people have their own sow. You're shown worth contribute a dirry—the District Council would have the contribute of the write? 4150. Yes—"Plant would be a defined as the writer. 4150. Yes.—That would be a difficult scheme to work.

4151. There is this disadvantage about Follow Bours's where, it is not possible everywhere to secure land by purchase, as in Kells. There the land was being divided

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Mrs. M. J. Cerantest. - Oth January, 1912

shat steps in thin yeal?—Not yet, but it is coming, a repress. The shetters you expense would take the recognition like the shetter you expense would take the recognition like it would be a difficult plots.

4120. Do you think the supervision would be trouble someth—Too, you would have so many offished. The officials would take half the visible of the sown. They would have to be a does no under conting completion.

rousid dake all the prefits of the mells, and the milk would have be as deer a unifer existing conditions. 4150. Consider the advantage of having a milke apply wouldn't be sized enough in the form, but how are That would be good cough in the form, but how are because the popular to the work of the concept the refit. 4154. That is another supert of the question, but I am bopper that that difficulty is not its represented?—You

not the null.

4114. That is another supert of the question, but I am begang that that difficulty is not insepectable?—You cannot have that all over the outside,

4155. No. Do you district that there are a fair number of owns that are sufficing from tobervalous.

causes a sorre une use withfring from televeriform siders and other madels that make their suffit is diagnot—I thank these sun. I thank imposition in vary 450. Would you surgert that the Lood Authorities should be vasied with power to inspect all sows poechange mile, whither the milk is odd in oxyde—Sic. I while every milks owe should be suspected. These thanks are supported to the control of the control than over. They you portions of this milk to the post, and is in not only the cows of people who sell milk that most hopposites, lot every owe receils at II.

poor, and it is not only the core of people who soft people who will be a considered to the construction of the construction o

senden for the boos.

AUSA, The CRAINVAS—It has been represented to
the Contribution that the relations erobiditing between
the Contribution that the relations erobiditing between
the treets pay, and that that the lower degree as
responsible for the secretary of milk smooger the
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4320. The suggestion offered to the Commission is, that the spirit of independence between the employee and this complayer has in some degree extraoged the formily fiching fluid had existed between them when many the improvement of the complayer of the complaye

Yes,

4863. The Churchen,—You do not regred that as a cause whereby sulk in less available for the poor than it was, any, twenty or tharty years ago?—Not in my distant, as I have said. They cannot get pasting for the cours. The course of lead have sinced by proceedings of the course.

of grass.

4163, I wanted to know whether this was a factor
in page district?—No, not a bit of it.

4164. I am expressly abused to beau it, because it
should very much regret HY—It is not the case with
not all.

should very much reprict 197—15 is not the case with se of all.

4166. You think it is rather as a consequence of the scoremed prices charged for groung that the number of correlated has been marriaged.

4105. Mr. O'Berns...Why N-I do not how.
4107. The Countest...Are those farms let on the
deven match's system No...
4108. Even where the lead is mirraged by the
conceptual they some refune to follow the outdoors of
allowing those belowers ground for a cont-Xys, they

concerns they are refuse to hipper the custom of concerns they are refuse to hipper the custom of th

4100. That is an entirely now condition?—That is so, 4750, That is the cause of the senseity of the milk, and it is led up to by so action of the inhouses

themselves—I mean they have not become extragad from their employees—Tory lave not. New people are not poor took offer, they their own, and thry are not poor took offer. They their own, and thry 4371. It is a zero spirit that prevalls among the coupling of londer—Yes. 4372. In it not very desirable—Indeed, it is not. 4373. Indy Strukaro—It is most immost for the

societies of health. Tel.

472. It is not very describt?—Indeed, it is not.

472. It is not very describt?—Indeed, it is not.

472. It has the very describt is most musual for this
hard not to get gause for his every—Mast unmost.

Until Schreday, when collecting evidence. I had no
has that the taste of affairs was so had. I thought
that at least every beed had gass for his cov.

472. Als. OPHINN—In my part of the consists

473. Als. OPHINN—In my part of the consists

there is a storage perjoice against pixing herds gazeng for a own, because they may that the herd's own gate the best of the grows and of the food?—If you man to get eather self fed, you should term them into the first where the herd's own, and they mill be better to the herd's own, and they mill be better to the herd's own, and they mill be better to do then may other eatility but you have get to you up with this.

with that particular sees you referred to he could be a first and the seed of the seed of

in the secretaries. They may be toward water that the secretaries and the secretaries of second to this parts follow the same practice and infine to sell militaries follow the same practice and infine to sell militaries out the same practice and infine to sell militaries out the second that the second

at 119. Because they fear the local temporar might be control to their place. For I know a case where this a control A miss who has a good one used to sell milk, a said when this Owler was passed he estuated to sell any section. I take Express.

y mee.

4860, Lody Byranse, Do you find the Order is

chlority administered in your district—I cannot
easily assure that quantion. I think the imposted does
his best, but I think they are in auther a difficult
position.

4881, We have had evidence that if a stringer were
easily assert.

4. HR, we have had evicence that if a stringin name reposition if a voxid to more effective—Text in should to should the received of the District Committee of Courty Courts of other head bodies. He should be absolutely independent of any outstal except the distriction independent of any outstal except the distriction.
4. HR. A. Court Anticorty?—Text. Having any little it unpector unden a Local Authority in Authority non-

stense.

4383. You think it has not led to effected administension of the Orders—No. it has not.

4384. Mr. CASTRELL—With regard to the relations that arise between the abstract and the farmer, have

g you many values consequent to your unsuffer-man restrict.

1886. Do the occupants work with the framers?—Yes. 4188. Where the they fire before they got the outside the same of the state of the same than any owner working on the forms on which the cottings is ended, or very class to M.

4187. But they turnedly lived in a cottage on the

and the total property greed in a collage on the factor of the part, did the farmer supply his labourer with the part, did the farmer supply his labourer with the part of the farmer of

4199. And the farmer says, "you can get your grass surrowhere the "5—Yes, "The Good of the string door at Office allo larving a commong for count—Yes, 100. You could find an a good system—I do, 4100. Would it not be equally possible to get a commonary for the treasts of the Urono collapses—Yes.

Mosterry—No. 4190. This could be done in any other place where there is a large rearrier of labourers?—You. 4195. Those are the people who are the wonet of for mike.—They six.

ned made dictised by the University of Southamoton Library Dictisation Unit

Mrs. M. J. Cenzixan, -9th January, 1922,

4197. Would you be in fewore of some system, by cooperative means or my other, by which a commonage should be got for those persons in the Urban cottanes use me not regularly and constantly employed on the farm 5-Certainly. That is body unded-to get game take are not containly. That is body unifed—to get gra-fems!—Certainly. That is body unifed—to get gra-tion that come. They have in acre of had with their cottago, and they could grow roots for the cor for the

488. Do you know any other part of Include where the labourers' cottogos are abandant?-No; in Galway they would not have shown at any price. I think we have more to our Unless than in any other Union to

Irohand,
4399. What is your opinion with regard to the gents?
—I can all for the goats. Every man should have a

4200. Have you thought out the conditions 4200. Here you insugat out the commons can should be imposed so persons looping gainty-Well, the only condition in that the goats should be tethered a certain distance. They say goats do a lot of heavi-We have lots of goats. We have tight or nine goats. We have lots of goats. We have eight or nine and on every field in the toon three is a rest. bushepd has a farm rn Galway, and there are over Surriy seats on it. They do not do all the hore that

4801. Has your husband any objection to the gosts? 4502 Do they come into your garden?-They will

not get in.
4900. If your garden was not well denced?—That is hadges in repetr.

4304. Do you think that the half nece attached to the Union coldage would be sufficient for the parts—They get um arre adapather. My father was a tremmedous man for milk fix the people. He gave gress to the blocurer and tookted on his originators doing the same, he made the people keep goats, which he said were the 4265. I suppose that was the cedinary goal which was need?-Yes.

4306. What was the ordinary quantity of milk gi

- A good good would give should a cup and a helf of rife—I mean a breakfast cup. 4207. About a pinty—Yes, or rather less. 4208. Mr. Carresen, —That is twice a day?—Yes,

4909. That is very hotic?—Yes.
4210. They are not getting any special feeding?—No, and they are not a special kind of goal. 6211. Here you ever hoom snows feeding their goets well-giving them gram and roots and testing the quality of the milk?—Tes. I went into a critique to day when my motte cut bride down, and I mpole to the woman about her goat. She told me the coat is giving over half a captal now, and that she give more

to the sommer when she was feeding it.
4212. Have you any experience of treating

SIBS. How long do they continue milking b-Scene-times up to seven months, if you feet them. I am trying to improve the goats with the Angle-Nutian, that will malk for more months, and you can get about four times as much milk from them as you would from

the cedinary gost. 4214. Am you speaking from experience?—You. 4215. Have you a pure Angle-Nubisa?—Yes. e216. Have you any experience of the cross!-No.

4217. There are several in that neighbourhood who 4218. And they milk better than the ordinary gost-

or a cow, and she milks for also mousts at the year.
4519. Have those Anglo-Nubiam better manners that the common goot?-I do not may that may goot has led manners, if managed properly. If you let a cow on to have wide margins to the roads, and there are lots of places to tether them. 4220. You drive a motor car?-Yes, and the goal is

the one animal that never gives me any teemble. are over the ditch before you can get near them. 4221. Mr. O'Bune,-Too have never seen goes lying down on the good asteep?-No.

It is the possible in some places, I have ridden over a goat on a bicycle myself.
The Charless.—The Lieuwick goats must be very

4222. Mr. Cumuma.—As you have some experience of goods, what would you suggest is the best way to encourage the inhorrers to heep goots-how would you set about it?-The right way to be have stations, as improve the breeds of fowl in the neighbourhood. That

4333. Do you think it would be possible to improve with the native poster—Yee, if you could get a good nilker and coose her with an Angle-Nuhian. 4234. I mean crossing with the examine goat?—I do not think you could get common posts who milk so 4225. You say aware that we cannot get Anglo-

Nulrina?-It ought not to be very difficult 4226. Where could you get them?-From the North 4223. Where the supply there or four, 4237, I have been stranged in sending them to the Azeth. We carried get enough of them for the North! They utill have to be keed.

—They utill have to be keed.

goots?—Yes.

4229. What is the price of them?—They are not for 4229. What is the price of them?—They are not to als. They are for my own district. 4200. Do you think you could get up a local amount

4231. Do you take any interest in the Agricultural Shawa?—Yes, I do. 4272. Have you may prizes for goets there?-Yes, ther.
4233. Do you find that doing any good?-Not yet, it

4234. How long have you been trying?-Two years. Ce give prizes for the best milising gost.
4235, How do you judge them?—By milising them.
4236, How do you know when the gost was last 

the best milking goats.

4538. Mr. O'Bargs.—I wanted to to and get the reice of the milk at Trun?—I are heay on that point. twin and our row was you the accumined. A work
be important to have the right peloc. It ensemt be 70.
4239. You referred to the cove in the market?—Yes,
I think the condition they are in when milled asseemblene. You will find that he are fals. 4240. Do you mean that the people can go up with say sort of tig, and get the milk of the cons for sale?

—Yea, when the con, is sold. They bring home the

and if you say the things they halog it in you would be surprised. It is the same in any felt. The ees may not have been milked for two days, and the poor people druk the milk. It is two days, and the poor people druk the milk. It is two days, and the Dublie surfet. O'Bams. In the average country fair 4241. Mr. O'Barre. In the average country fair the case has been refliced the evening before? You are 4942. What is the object of not militing the catile

for a couple of days?—To give the unders a bigger appearance. It is terrible the Society for the appearance. It is terrible the Socrey for on-Prevention of Cuelty to Naimule does not interfec-in this matter. I know that has you us bought a cose in the Dublis masket and the milk was not fit to use for nearly four days.

4243. The Charman, Ton Which that was due to

overstocking?—Yes. overstocking?—Xes.
4244. Mr. O'Benro.—Do you think that is the
custom in the small local fairs?—It is the custom all

4245, M1. O'Bures, I know that in cortain places state, all, O'really, I state that it cortain place when the people have a temperance tent, they get the mill; for nothing from the people in the inter-I would not once to go into the temperance tent and drink the ten. The coveres allow peor remem in the country to mill; the cow when it is soid, and there people unit, in the most filling vessels—the core not couply seeing time. it is horrible that such a erators about be permitted. 4345, Could not the Inspectors of the Society ion the Provention of Cracity to Animals prevent it?

The CHARGES,-They could in Dublin,-You would The GRUSSIN-They could in Dublin-Ton would ward a special independent over command down from \$40.00 Measurement of the Command of the Command

4890. Why did they occess.
the book objected to them.
4200. On assecut of the damage date?—They and
they injured the hedge. They will not injure a hedge. aloss it is very young.

4201. There is no propulies spainst gonts' mile?— No, the people value it very highly,
4233. In there a preparate to Galway to the mile?...

ACCOUNT OF THE STATE OF THE STA 4334. Is the taste for goats' milk an acquired taste?-

easi. In the tance long-one
it is in a vary.—Do you ever use it in your
easi. The Crustros—Do you ever use it in your
easi.—My boy drawle spots' milk every day. to
elimit its—Use loves it, and will not an opening beam of
elimit its—Use loves it, and will not an opening beam
being its—Use loves it, and will not an opening low
in the tangent of the ten to cover 'milk,
it is in even in the ten of the cover 'milk,
it is in ——the opening the righter than cover 'milk,
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if it the event; it is pear than cows mus; it is fife very rish event in the tes. 42.8 Mr. Carrena.—Is the flavour due to the medi of the goal or the national qualities of the milk? —I think goals cal more before than coss. the farmer and the labourer are loat?—Yes, the whole

4209. If the goat was kept clean and well groomed, 4800. If the goat was kept dean and well groomed, and if the person who milled it did not toward the feet to go the transit, or expect you the small, evold you tell the difference between goats' milk and crows' milk—Oh, you. The Anglo-Nebuni's is not so much different as the author line goats' milk from the cones milk.

4800. Prof. Merran,—Every milk will have a market freely amonthing to the control products of the control products o

peculiar flavour according to the aramal productry at? 4361. There is an intrinsic flavour about the milk-due to the animal producing st?—Yes. 4202. Mr. O'Brigor.-You have a great number of

labourers' cottages occupied by lebourers who furmerly lived on the farm?—Yes, 4963. Do the farmers there olten find any difficulty second to the benefits there often find any difficulty in getting those laboures to work for them became they have an independent collage and perhaps an near of hand?—No, became they mendon the oer of land and put nothing into m. The difficulty is to get them to till it.

4254. The remon that the furner crosed to give 4224, 130 tensor mat the firmer crased to give them them grans is not became the laboure says, "I will not nock today became I have to dig my position "S—No. When the farmer had the laboure-walking he gives him points ground. Nor he gives blen nothing 4260. Mr. Currette.-Because he got his indepen-4206. The farmer says, "You can make the best of your radependence "5-Yes, 4367. Prof. Marroy.-The old associations between

The Consecution then offenered until the 25th Jamery, 1912

## THIRTEENTH DAY.—THURSDAY, 25TH JANUARY, 1912 The Commissioners not at No. 5, Upper Castle Yard, Dublin.

Present;-P. J. O'NEILL, Esq. (Chairman); Lady Everard; Mess Mangaret McNeill, Sir STRWART WOODHOUSE, M.D.; GEORGE A. MOORREAD, Esq., F.B.C.R.I.; ALEC. WILSON, Esq.; DERMOD O'BRIEN, Esq.; JOHN R. CAMPRELL, Esq., B.Sc.

S. W. STRANGE, Esq., Secretary.

### Mr. E. KrySupr exemined.

4388. The CHARGES, You are a large landowned and feeder of eattle in Co. Dublin 3.—You, in Co. Dublin and in Mildor.

6300, May I inquire, do you purchase your own stock - Almost entirely. stock - Almost cuthery.

4259. And, of source, that gives you a wide experience in vacting the various faint?—Yes, principally in the South of Irotand. I may say prompally in the camery districts.

4221. Here you been capaged in this compation for a considerable time?—Yes, for over thirty years. 4372. And that would give you an opportunity of comparing the class of stock new existenced for sale with those that were offered, say, thirty years ago?

4276. Have you formed any conclusion as to whether or not there is a reaked change or the class of stock offseed in the folias of fictional during your experience?— I have I can taking now more in relation to the South than the West of Reisland, They are the there 6374. And with regard to the South what is your optioner? My experience leads me to the conclusion 4273. To the disadvantage of those of the present day3.—Yes. Thirty yets upo the taberculous or "pasting" saitle se they were called—were punctically con-custom. The first techniques aromal I new was

in 1888. I can recollect the animal even most. Unfortunately I hought it, and I watched it gradually declining in bealth.

4876. Do you feed a large number of shipper conv?—
Yes; perhaps fact year I fed less then rousi, because due to toberecious disease 4207. Do you purchase these stripper cows yourself? 8278. And in the districts whose the commerce are in operation?—You.

in operation ... Tex.

4270. There is, you think, a direct connection
between the cown you proclams and the cown that
use used for supplying the creamerics?—Yes. The stripper is a cow that has been milled for any morning When her term of milling as nearly over also is seen to people like aspell who fathen earlie.

2000. Can you tell the Communion what proportion of these costs here proved to be interesting an the last first or dix years—I am admid about four process. within the year would suffi from tubercally of I doubt any heat year it was quite feer per over, 2821, OR common these some when beauth by you 1 storing my man you in was quite sour pan ones.

(1881, Of counte, these sows when heaght by you after their malking panied would be in low sendilline?

—Sometimes they would, Those you buy in less sustanta are in good condition.

4282. Those are cown that might be pastured on good lands during the summer?—Yes, I am very smooth short baying them, and you have a good selection of well-fed cown to purchase from. size. I was rust suggesting that the difficulty of determining a new with a tendency to their tonic would be much greater when all the sunnels see in low confidince—less and no matter here careful you me you get n critish properties of them. Some con-keepers have given in plying solely on account of the loss they amatine, the increase in the sunnels of 1284, Would you be good enough to still the 1284. Would you be good enough to still the

sometone reason are sent to the property of the late of the Commission whiter you consider this an increasing leas, and whether the terminal the increasing leas, and whether the number of cost that download to be considered to the control of the

4295. Notwithstanding that the most provoncest types use eliminated from the bard, and that you toy what you consider sound animals, you find that about four per ext. of these will directly the benefits about the per per cont. In the contract of the cont

4996. Can you still the Commission the member of open that you see appoint that are visibly anticoping from tuberestorast—I think the percentage would be from serve to explo-4997. Apart from what you hough? scores??—Test we will say size per cont. in order to be under the

438. Persons to the anticlestors of the creasury system, you had been in the shall of perchasing system, you had been in the shall of perchasing entitions that were used in the Co. Literach and Co. Cost chapted, and you found that up to the control of the contr

ealone cores in the ceanory delation, sometime of the MESO. Here you formed any opnous sometimes to describe the special of the aliasses.—

I want to be a support of the special of the aliasses.—

I will be a support of the special of the substance of the special of the substance of the process and smaller framework that some of their cores are aliassed to such a dignor that the support of the substance of the special of the support of the substance of the support of the foreign of ealerth, and the substance of the support of the foreign of ealerth and the substance of the support of the foreign of ealerth of the support of the

their bad its so nor measure memory as conservation of the following the frame—The approxed with a non-course.

4201. You connect the dissertimation of the tolloweds with the nor of the separated mills which it send back to the convict.—Less the following of the convert.—Less that the convert.—Less the service of the following of the last partial bankley and work. In two or three morths also called a solution is convert, which is not the first show and its a convert help they are the convertible the service of the convertible to the convertible the service of the convertible to the convertible the service of the convertible to the c

6292. Did she produce a healthy call?—A small call.
4293. Did it survive?—Ko, I ten dietid it died, bas
1 do not skrittiou the drith of the sall to televentosis.
It was not from that to hick: it was from another cause.
4294. Too spoke a seasonet ago of some of the small
formore keyling cons in parhaps a poor condition, and
cone of these are exhibited for sain at the various
cone of these are exhibited for sain at the various

action Do you think that there is a register tool, as these stinces is a very low pair by those with one is a thou, corolly the assimals to be all near supposed. The corolly the assimals to be all near supposed. In the corolly the assimals to be all near the corolly of the corolly the corolly of the corolly of the corolly that by the corolly of the corolly of the corolly of the that by the corolly of the corolly of the corolly of the produced by the corolly of the corolly of the corolly produced by the corolly of the original corolly of the corolly of the

of the reason of

cone." That was his one sepond, and that topped.
27% The attention of the Commission has already
27% The attention of the Commission has already
been directed to this particular there—this multing of
home directed to this particular there—this multing of
Li much has accorded certain danger than those
the units was to reveals that are districtly incident?

Li much has accorded certain danger than those
are to tan years of ear our rain twention, in so skind,
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wid, in my opuron, for milling purposes, 400. They are wasted in appearance—Yes; some times they are in a very emecated state, with the hairs starms, and they are usely noticeable in a fat cellic mirror.
500. Have you ever noticed in the Southers distincts an officer representing the local District Council milding an inspection of the mirrains that were

Control making an inspection of the mirrads that were calabilited for sale at the fair?—Never; I have never beard of seach a thing.

\$392. So from your experience there is posterable no inspection exercised by the local authorities for ensuring that the advants exposed for sale are search or beathy?—I have never lessed of it. Of course, the

of nominal Sections are sense on the contraction of Lampeton may be there, but if he has no distinction and the contraction of the contraction of

4994. I have actually reaccushated myself will think farrors in Luncrish short the same punches 1—3 tank we all leave our own so on too long. I found it my own case better results if you have them out less 4800. I quite agree. I recomity bestelf it myself, and I found a distinct advantage in keeping core bounds as had weakingt. Also, If a hard once becomes as had weakingt.—I.co. If a hard once becomes

fell of borth.

4001. I can be need to say that I have seen them kept an absolutely reveiling recalition in the publication tests to?—Yes.

207. Here yes bought even entitle the ensures the highest test for all fifth it would be had to withten reliable to find any thorough execution of the highest test for the second of the second entitle the second of the second entitle the first test in the second of the second entitle the first test for the second entitle the second of the second entitle the second entities the second entitle th

4510. Are you sponking of the duzy importor comployed by the Uthers or the Boral Commit—Any importer of advance must be useful if the doct has week.

4511. Have you any experience of the sectors which the duties of the importance of the sectors in until districts?—No, except with request to the vectorizing rangeon in my own districts, and be does

setentiary attrices in any own many conbin mode well, you be in favour of having dairy unperclose qualified referency component—Yes. 631, De you think it would be a greater security to the public bealth—Yes, soid I think he would be in a far more independent position than the most whe may have local auteouts.

which presents you have not so made any inspection of the community in the containing below the properties of the containing the containing the containing of the first hat 90% or the fact of the first hat 90% or the fact of the first hat 90% or the first hat 10% or the first hat 10

managed and dearly—may that I imposted.

3018. Lady Newano—This is your quinter that the
come of the increased printer of azimals suffering
from interestions to that the subsect of indeed by the
separated math. Data is returned from the overacity?—
That is my opinion.

419. The Challest—And those culves are legis for
during numbers when they develop—A corrian number.

A second person of the second person was a series of the second person o

4843, WOM yes any user seem some access of the property of the

number of caives.

4826. Have you any idea of what mile ought to be add at, in order to be a fairly remanerative speculation?—I cannot go into that question, not being a dairy farmer.

4826. You have never been attracted by it?—I have

Meets, 100 here now of interaction (p. 117-1) favorsity. It is not I am admid I are not out its to begin 1997. The CRURHON-The year own ammediate antiphothwoods begree year out princension as so wholever or not mill in procurable for the laborating classes at they desire be to yet 14-1 have based centum complaints or own immediate antiphothwoods they have organised a delay—langly Mayo Ina done no-end supprove this works mills now one get it there of a reasonable price. Auty—Langle Mayo Ina done no-end supprove this works mills now one get it there of a reasonable price.

unspection.

4328. But the very fact that this new categories had been shalled would seem to indicate that there was some necessity for taking steps to provide milk for the humbler classed—Non I flamb the sale has

been matrified by the Datries Order.

8222. Thus who were in the bable of tuling multiherricides declined to continue the treat coving to the
partners that was exercised over them under the
Bairles and Cowabels Order—I than the small
forcers and to think its worth while registering their
forcers. They said they would not all any saves miltforcers. They is the treatment of the first treatment
for the continue of the continue of the continue of the
forcers. They said they would not all any saves miltforcers.

489. The difficulty has been solved apparently in your own district by the containance of the dairy year own district by the containance of the dairy at 232, Do you give own containance of them, and I think are apprehen I. I rapply no not branchelders.

482, Do you do not not good the containance of the containance

toolstaters inguit after in directify, the 1. or in or difficulty with regard to them. I have never hand them complain of any want of units.

4364. Mr Norses—I recult has done inharmation of the complaint of the complaint of the complaint of the common the market—I have formed a very stong optiming, indeed, that there is no earthy chance of strangar out the disease whole recombible constructure of the disease whole recombible contractions of the complaint of the complaints of the change of the complaints of the complaints of the houghtern. But within the contraction of the com-

g the four market-value, printing a small personitage lear.

All this disseased assumed resolution properties of the owners got anything the resonable compensation; if 4888, And they are dring diseases, 1—76.

4888, And they are dring diseases, 1—76.

4889, Your opinion in that if the farmers thought they would get reasonable compensation they would get reasonable compensation they would see the compensation of the farmers are seen with an obtivity diseased actional, would not seen the compensation of the second of the compensation of the c

men was seen with an obviously discussed actimal, would be a certainly be a compared to the compared to the to extend policy, but I first the centules would have be be seen in the later if reasonable compared to the best of the compared to the compared to the compared to the later reasonable of the compared to the compared to the sufficiently obviously discussed, and they might be sold sufficiently obviously discussed, and they might be a sold sufficiently obviously discussed, and they might be a substant of the compared to the compared to the compared when the compared to the compared to the compared to the substant of the compared to the later to the compared to the compared to the compared to the later to the compared to the compared to the compared to the later to the compared to the compared to the compared to the compared to the later to the compared to the compared to the compared to the compared to the later to the compared to the compa

thing of your court of the property of the pro

three work for me.
4867. Do you know for whom they work?—I am
48647. Do you know for whom they work?—I am
48647. On you know your own housebolders?—
Yes.
48647. Do you men your heede and hersemen and
48649. Do you men your heede and hersemen and

4339. They are all in your own cottages?—Yes,
4331. And you have a certain responsibility for
rapplying these with mills:—Yes,
6503. But if you employed a labourer out of the
Union cottages you would not supply him?—I only
supply my own householders.

supply my own accuraceous.

48CC. You result not excusive that you had any recal edugation to supply people resultarly with sweet.

4844. Be you think that feeling mate deserving—

14 think that is the green if feeling, "the people think that they are receal edugation to give malls costand thair own householders.

1803. Xuu referred to this deterioration of the malls.

Mr. E. KENNEDY .- 457A January, 1912.

work MR I understand you to say that the creameries are responsible for this?—I am afreid so in a great diagree.

4337. What all. dary termen who bred do not seem in the least particular what mate they use for their cows. These people do not seem to ours what bull they mate their

interested in their tenants to bread and place of their disposal good buils. That all ended with the presing of the Land Act of 1881. I have no doubt that the Agricultural Department has been doing a great deal

of good.

4333. It takes the place of the philanthropic fand-lards you have mentured?—I do not think it quite makes up for them. I am in favour of larger endow-

costs for botto.
6389. You are of episten that the creameries have to some extent caused thus deterioretics?-Yes, but at is only fair to the eventories to say that the year self-same neglect of using proper bulls would can't if the creenories were not three at all. I want so make it perfectly clear that the Lamerick hand one is absolutely another animal to what it was before the existed.

4899. That must be due to something one than the ball?—To the separated milk. 4912. In it held among persons who are taking the same interest to live stock that you see, that it is the crameras that cause the deterioration in culves? holds the same view-that the indifferent built and the separated milk combined ore the cause. 4868. Do you see a big trade going on in the se

of really good heifers that raight make good miles own?—Yes. De you mean in the Co. Limerick? 6993. I am openious generally?—Xes, the trade, no death, as going on, and cows are tent out of the country

6364. And there are some of them sent out fettened? -Year

4365. So that no matter what steps the Departmen might teke to improve the arimals, by the use of good bulls, there mask be an enormous waste owing good buffers going out of the country?—Yea 4866. If those could be retained you think it would improve the quality of the castle? Yes. What we meso, and what we hinge the orecomines for, is that we castle find the same "to proof"—the old magni-

cent, square Limeral cow so rapidly becoming a thing 4967. Do you tee much of the teads in milch cowe? certain amount of it. I see a great many block and sold.

4868. Do you see the cows that are sold out of Iroland?-I do. 4969. Are those good cows?-They are fairly good cowe, but I think they are not as good as in the old

4370. You think that they have also deterocated?--I would not say that they have deteriorated in the same dagras. Most of the cows bought in the Dublin market are bought outside the creamery districts. That is my experience. A good many are hought in Longton Wartmosth, and other counties cutside the creamery distincts, and I think in Wicklow and Kithum and Queen's County. seen's County. Rathdowney is a very popular fair, think the broad of cattle has improved in Queen's

in Quecu's

County. I do not know why. From this face of Roth-downey a great many come to Dublin, and I nould almost say they are the best cettle in Irriand. 6371. Mr. Wilson,-Is that a creamery area?-No. 6972. Does your knowledge extend to the North?-Not to ony very marked degree. I have purchased

cattle in Slip, and in Fernstragh. cattle in Stip, and in Fernancagh.

5733 There we happ series in Ulsten that are
consumpty areas in the sense that Lemmisk in. Would
your streamers apply there. —I am almod I bought disnated cattle in Stips. I, however, brught so faw in
Stips for the last twenty yours ethal aboud not hip to
give an opinion with respect to the quantum your sale. 4974. You have a strong opinion with regard to the

4070. I have been looking for figures—figures dealing with the export of cattle for a member of years past,

which show an increase, not only in the number of estile experted, but a large successor at the value per bread?-There was a large decisare in the conert least

6376. I have not the figures for last year, but up to 1910, both the number and velue of the eattle had increased, and in proportion the value had ingreased sur-

4377. During the last tifteen years the value of the unimals increased from 217 to 225 per bead. I am speaking from normecy?—I wish I could agree with your statement as to the increased price of cattle-

your manufacturer as to the infromes price of cartis-that in the last fifteen years the average solmal than reade £17 new made £28. 4878, I county recollect the exact firmout -- I have not gone anto the statistics very closely, but in 1908

exported.
4479. Here are figures—in 1900 the number exported was 746,000, and in 1910 the number was 808,000, That is not the actual table I was looking for?---I notice according to this table that the number exported in 1600 was 160,000; and in 1904, 775,000, and that in

last four years the number averaged about 500,000.

450. The reason I wer quoting these figures was to know if you can suggest to us whether they showed evidence of your atstement?-Take 1902-there

100,000 mere experied than in other years included in the table. The number of autile experied weekl depend the start. Its nutrition of earner exported weam depend on the ansutes of feedfully we could grow and produce and the price we can go! for the cottle on the other side. If you had a good geam year like 1940 you would produce for more cattle. 1911 was a very bad year, and the export in that year would decrease encorrossly. If we have a good grass year this your we will have a very 4381. The reason I brought up there figures was to

see whether you could suggest any evidence whether the eattle of Ireland were degreesing in either number or value from any same?-Most of my evidence to given an reference to the districts in which I have purchased my outsits. When I speak of a decrease in value, I slinde almost controly to Nurster. In the dirignots of Connectors the breed of store outile has

4982. The point I wished to make was that your ovidence refers to a specific area?—Yes, that is so. 4583. The CHARMAN.--You only spoke of your expenence in the districts in which you have been in the 4884. And your evidence is confined to this restricted

4385, Mr. O'Burre......Do you know at all what as charged for the gress of a cow in your district to a ishourer?—44 for the summer six manthe.

4386. Has that price been increased lately "-Not that I am aware of. I reveal observe & for the grassing that I am aware of. I sayself charge £6 for the grassing for six meeths, and I understand that to the usual charge mode.
4397. We had evidence before us sirrudy that there

has been in some districts a very large increase in the price charged for the gross of a cow in recent vesce. and that this increase was one or the culture recovering for the difficulty that the labourer experiences in getting milk. I think in one case we were told that the increase was from 43 10s. to 46 10s. far the grace of a cow, and that it was even considered a favour if you could get it at that?-I have not heard of any such increase in my district, and I do not think it has occurred. In my

caise the figure is the same as it used to be.

3988. The Creamant—The year ourser writes an appli-cation for the grass of a cow?—I have never yet.

6997. Even though the inbourse would not be in year

6997. Even though the inbourse would not be in year

6997. I am gift a compared to the content of the compared to the content of the con dange land owner, too, and he never refense either. I do not think in my district there is any difficulty to getting gram for a new for \$4 for his months. I have payer board of much a difficulty.

4001. Mr. CONTRELL—How well that must first him over in written—the same that got the grass of the cover in written—the same that got the grass of the cover is a range of the grass of the cover is a range of the grass of the cover is a range of the grass of the cover is a range of the cover is

a trude of softing 18.

6000. Do people come into your place with parls saling you be sell unit to them "No.

4004. You would not care to do it?—No.

4006. Supposing you had a simples of mails would

soon, objecting you not a various or man would be comed to have a constraint of the constraint of the

to stomp into aerocopeant.

4397. It mean the old squeer Limerick owe that you returned to. I suppose you find that shouts Killmallock's —Yes, but in a smaller percentage.

4398. Do you think that the deterioration could is some extent have come about herame the host heliers, or many of thorm that would have been appet for levely.

to have winter mills, and having so get feeding for the raids new in winter, said these return than put them to the ball agelo?—I do not think there as a large percentage of mosters now than there was. I have no reson to believe that the percentage is larger than hereofolium.

4000. For would not think that there is a consister.

4899. Too would not think that there is a considerable spread of contagious aboutco?—I quite agree with you that there is. There is no decist about it that there is a great inscrease in contagious abortion.

690). Too comes secons that in the necessary distracts in Musicle "They very frequently, and there is commons weatings of the advise force never [d].
400]. That is withe soccor\* "Feet saved [d] periodes white social, Naved [f] has increased, see, and that is essuare faster in the decisionation of could in the activity of the second could not be second could not in the new factor of the decision of the second could not in feeding the natives lowers that of the decision. All never all us not fitted. The

where a terms may go at that platter it eff.

4909. Do you not think that the former mov remines
that the fit has been extracted from the separated milk,
and that it is necessary to seld some substitute to 187—
I hope they are inserting it, but I am atrait the oulvefed on the supersied milk are not looking like what
they used to in the old days. I have of freners who
all timed, but I have learn that it was yet yet yet.

the state ago, and they yeeke with reversion of the old rish core a rance divisional green of milet—I are not as alway framer, and saystimed I should say on this vanician with the state of the state of the state of the state of that I have assisted in any core sens that the called gree less with that they all before. I do not think the gree less with that the head in the case that whe called provide. I that the head in the court state workeast of provide. I that the head in the court state workeast to tend the state of the pass and pattern they are taking to the court of the pass and pattern they are taking to the state of the pass and pattern they are taking to the state of the pass and pattern they are taking to the state of the pass and pattern they are taking to the state of the pass and pattern they are taking to the state of the pass and pattern they are taking the state of the pass and the state of the pass to the state of the pass and the state of the pass they are taken to the pass of the pass and the pass of the pass of the pass and the pass of the pass of the pass the pass of the pass of the pass of the pass the pass of the pass of the pass of the pass the pass of the pass of the pass the pass of the pass of the pass of the pass the pass of the pass of the pass of the pass the pass of the pass of the pass of the pass the pass of the pass of the pass of the pass of the pass the pass of the pass o

form these to foto yes ceach, a could, as a freedom to tend these to foto yes ceach, a could, as a property of the could be compared to the processing scalable from timeproducing of, where the processing scalable from timetodical steps on the large, and with the expense of consumal that I loopsh for a surger, I had no own counting the contract of the contract of the consumal that I loopsh for a surger, I had no own properties I would be surger, and the contraction of the contract of the contraction of the contract of the conpared to the contract of the contraction of of the con-

ber.

4096. The Charmana.—Do you deink that system as
there sing N—I do not blink no.
4400. I hap not.—It is a strong system although in
provided in Scotland.

The strong N—I have been system although in
provided be method to give that the system in decreaing.
4000. Mr. O'Brinns.—I think in that ones the

over the state of the state of

stages, when the cow has got very had, there is a percoming of the discose in the older. I have head in atoled to be 39 per card.

4411. Mr. William.—39 per cent. of what?—39 per cent. of tobersilous cown in the dary stock. These was before the inspection of the attention.

4413. Mr. Goerman—It the number of persons regard in the statis sets remained in the control of the control of

4414. I had suther in my mind whether in local fairs the manuface of beyone and plabers, and no on, had no revenue, and this quantum to see whether the maps to have so all this quantum to see whether the maps to have so all this quantum that had not support in folling peed until—wheth the manuface people belong for them—I do not have a save people to outsierous as he was, because popple to their own brying discorby or entire to commissioners.

Miss Manrea Leoner examined. of in Kills- regular?—Bound us there

months?—Round us there are few agricultural labourers is in many contently mind framers who reads in the distinct, and they make their own milk. In addition, there are about five variates of milk in the utilize of Milanhandra. 4419. De thus five vendors keep up a nopply of milk for the winter months?—They tall me that they make as effort to amply their noglear contonners all the year-

600. In the village of Katlenbroken there is no difficulty in possessing male in successor or winter?— None, for tegelar contenses. 4622. But outside that area there is a difficulty to the winter?—Yes. The small feeture who keeps one

4415. The Cananax—Too see reduced in Killssinnings, Co, Crean—Tools
4415. And you and your family have been welllamen as largely interested in philosologies over, in large the largely interested in philosologies over, in the owney generally.
4417. Do you believe much difficulty startle smooth the broadlar challes in scorning a nopicy of noils in the broadlar challes in scorning a nopicy of noils in The supply a very pleasable late communer, and there as no efficiently in pritting in. We are no a sufficiently, you know. The small decay them or a shoot is a not to feed them in the winter, as a rule, and I have known instances where there is no null in the winter.

4432 Not seen for their own farms?—Yes, One of the vendors of milk in Killeshandan told me of one woman who comes in about two miles to hrong out

mill once or twice a week.

4825. This is the wirter supply?—Xes. 4824. So that in reality one person is obliged to walk a distance of two miles to the village, and two

miles back to her house, to prouve a supply of milk to colour her ton!—Yes, that is at the present manner.

4425. And I presume that is not an isolated one?—
My experience would load me to believe that it is

and an moduled case.

4420. For what reason do you think the small farmer than to know up the milk supply during the wanter months—does be think it is not consensually portisher months -- one to think it is no constrainty parameter to do sof--Ours is not a tillage district. If they could be stown that winter rulk is profitable they would

4427. They make no province by the growing of roots for the feeding of dairy cattle in the winter months?...No 4428. And they believe that they could not profitably

no?-Yes, that is the operator. 4429. Most of those who engage in casual labour, I pessume, are small landholders—Yea. Not being a tillage district, there is no constant demand for labour. small handowner, in addition to doing his work, will work for others who employ him. It is very difficult to get an agreealtural labourer in our distract. It is difficult to source eaten belo in the

summer.

6430, Would you think that due to the fact that have so no confinuous occupation for an agricultural labourer in your distinct?—You. There has been a great acarouty of labourers' houses. That is improving,

and we are hoping some belowers will come into the distance if incourers' cottages are built.

4481. In the number of cottages are recessing in your

4431. Is the number or comparation of districts "Yes, largely,"
4492. And you are begond that that will increase the supply of labour"—Xea.
4435. From what source do the people occupying axon, ream what source on the people comprises flows cettages sector their milk supply?—I think if there was a demand from them the frames would consent to deliver milk. If we get constant biscorrest we would supply them with milk as we do our present

4634. Do you think the restrictions imposed by registration have in any way restricted the sale of malk or the number of people who are withing to supply with in small quantities?—I have not supely milk in small quantities?—I have not occue actors it suppelf. I have been told that in the Country town, Carant, two or three people have given up the sale of milk for this remote, but I caracte speak from my own knowledge. I have been told of it in two, or three places, but have not personal knowledge.

4835. You keep a large darry bord?-My brother does, 4486. Do you supply your own labourers wish milk?
-We mirely our regular men. They have a quest of

new milk per day cash, and when we churn they are allowed to take all the butternik after we take what we require for the bouse. They get so much wages,

4407. The milk is a portion of their wages?-Yes.

4428. And it is recollished at the baring time?-Yes, 4639. And they get this milk summer and winter?

—Yes, always. The quantity of buttersift they get depends on the supply of buttermilk we have. If that runs short they are allowed to take separated milk after the bound is supplied, and calvar.

444). Do you use a milk separator in your own dairy?-Yes. 6651. To what purposes do you devote the superated milk?—After what is required for the labourers, we

devote it to the rearing of salvas and page. 4441, What is your experience with regard to culves -do you consider this a useful food for them?—I am an entire believer in separated mile; it is most useful

4643. You have not noticed any deterioration in the stock raised on separated rails, or any increase in disease among the animals as a result of bring fed on separated mulk?—We communed call rouring to any

4665. Do you feed the animals to maturity which as ealers are fed on separated milk?—Yes, up to what we 4445 Do you keep any of these brilers for cows-any of the before that are bred in your own place?— Yes, we try to renew our dairy stock from our own

4025. What I wanted to know in, whether your

4448. What I wanted to know is, whether your stock suffers from any disease by reason of the fact that the calves are brought up on separated milk, or whether you believe that their constitutions are impaired by the use of this satisfe of 4675—Our experience is that our hard has improved very considerably, owing to our laving more expensese, and because we have men brought up under our own eye to take charge of them. We have men under our eye who see most inustroothy and have a recal ktowledge of feeding, and we try to awail outse size of scientific knowledge. Our experience is that disease as practically almost stamped out of our farm, We have not had one case of white eccur among the calvee for five years, that I remember-

4547. Have you any case of tuberculous disease smoot your stock?—I only know of one case that we 6645. What did you do in that case?-The cow was destroyed at once. In her once the disease made very

apid progress.
6449. With regard to disease, have you found it 644). With regard to disease, have you come as necessary at any period to dispose of asimals which stemed to be thrifflees, and that might be suspected of being in some degree unacced?—I have not any objections of limit; I do not recollect any case of

4410. There has been no instance of that kind in your herd so far as you can recollect?-No. 4451. Do you keep milk records?-You. 4452. Do you find it educational?-Yes, most so. 6453. Do you, as a result of the looping of milk records,

eliminate from your dairy stock from time to time summin that are not profitable to keep in comparison with others?—Yes, 4454. And has the milk in your

records were begun here mercasied1—Very largely, 4455. Cen you tell me what to the average yield of rolls from your dailry-bred?—The othersed idd me that last year cut best own gower 969 gellions of mills, and the average in that neighbourhood is 100 gellions Our worst own give 315 gallion. In pressure, I see so 4466. In the ordinary occurs, I pressure, I was a pure-word, by sharmated from the bred?—It was a puread we are keeping ber for another year.

9457. Is the cutire herd pure-bred?—No; we do not

believe in the pure-bred for milk. This cow that give the bull. And the now that earne must to her in yield as from a pure-bred Jersey bull. Size gave 879 millions. 4458, Mr. O'Banus .- Have you the average yield of your stock?-It was given as 660 miless, but I think

4459. The CHARMAN.—Of course, your heed is highly fed in the winter time?—Yes, at all seasons. 6990. So that we may renkee that the milk is produced though we go entirely in for penfit and not for fancy.

do not think that they would be as well need for in on ordinary farmer's place. 4461. I can quite believe that. Do you, in deading the young colves, give them, in addition to the cops rated milk, some food to supply the fats extracted? Yea; our colven got new malk for these weeks from the mother, and I think that is the reaction in our neigh houthood. At that time we begin to add the separated milk, with the addition—at present it is "Bibly's" food. In about five weeks they are fed on separated

milk with the addition of oalf meal. 4402. Did you try sed liver oil as an addition to the separated milt?-We did one year, but we gave it up. 4463. You were not encouraged to continue it?-No. We use very much the food recommended by the De-

493. From your own expenses, have you found that that he produced satisfactory results?—Yes, 405. In there a creamery in Killishandra?—There

5936. In the separated make used for the feeding of enives generally by the people supplying milk to the 6407. Do they, or you do, give in addition to the separated milk certain other foods in order to make up for the elimination of the fals?—Yes; I have saked a roof many farmers about the district and

S. Dues the crossnery supply the calf meal?— There is an agricultural store connected with it. 4450. Is this a co-operative county?—Yes. 4470. Mr. Caurania...—An agricultured and dulry

society?-You.

4471, The Caumman,-Do you use crushed outs as a food for milels count.-You. a food for instance over -- 1s.

4472. De you think it is an economical food?—Xee.

My brokker is not occurbeed that froding in paying he is not softefied on the point yet, he is keeping very careful accounts dealing with the mastre. He milk is worth to him about 86, a gollon, and be is not salished that 8d, will pay for milk in the winder time. We do not sell the whole milk at all, but we sell the better in Lendon. The selfe brings ham as 8d. a gallon. 4478. As a result of the sale of the belief?—Too, as

4474. Do you sell better that you produce at home through a co-operative secrety, or have you so refe-pendent market?—It is almost all sold through the 4674. It is sold in order to secure the best fragonal results 5-Yes, results - 1co.

6475. And notwithstanding that fact, you have come
to the conclusion that the result of that and only gives

a proce equavalent to Sd. a callon for the mrk?-You, a price equivalent to 86. a gallon list the mink-list, but in addition to that, we have the separated milk, but that is the rotum of the new milk-86, a gallon.

ing in your district?—I think that is the result—8d. a pilled for the milk.

4417. What does your brother estimate is the value of your separated mile?-He said that he could not r your separated mms?—He said that he could not on loss than Ld a gollen on the separated milk. 4478. And he did not feel disposed to put more?—

4479. So that I may take it that the £ s d. amounts to the, that that butter, seld in the particular way, through the highest merket, which is above the cedimary mariest price, produces about \$0. s gallen for anis, autholog td. for separated milk -Xo, to the 689). Lady Evenue. How many gallous of mile do you encounter go to a pound of butter? We have got

on you encourse go to a pound at outset?—we have got one pound from twic pollone, but that is encouptional. 4481. The Charmeau,—Here you Jerseys in that head?—Yes, we have three. I think that two gallons of suffix to a pound of butter is constant.

4485. Lady Evenan.—Do you not consider that if you could get a mocket for your milk that it would pay you better than to claim it into butter?—Yes, if I

4983. The Character,--- Does your creamery work in 4684. What is the ercomory price for milk at the resent time?—In November at was 64., and Decem-

4485. And in the example what would be the avernec?-I think the average last year was 4M, a college. 4406. When the eventury continues working in the winter time there must be a moderately large number

of thereous who are following winter durying?—Its would be winter durying in a lemied sense, but I do not think we have many farmers who actually feed for writer derrying. 4187, What I understead by winter dairying would

4480, What I trearment by waser unitying more than, that a farmer who elects to keep a deary farm would continue to supply milk for the whole twelve. would content to supply must be use water average resettle, rather than it in the use of seven months as predicted in some Southern countries. Are those any received in some Southern countries. Are those any consumence closed down in the winter in your district?

—I do not know of any that or closed down during the winter. There are fourteen sandfiring overageless to

Miss Marris Locon,-25th Josepp, 1912, 4488. The custom which provails in your district differs from that which provails in most of the southern counties? I think so. We move week on Sunday.

4480. What becomes of the Sunday's milk? It is churned at home to supply the families with butter 4490. In that on invariable contour?-I think I year

4491. The creameries do not receive milk on Sun-4492. Of ourse, there is a very consederable reduc-4425. Can you give the Commission may idea of but I osn send you the information if it is im-. I osn tell you about the whole year. sets at the reason why I gut the question is this-was entired to know how far under durying was sod this exactly on winter dairying. 6695, Cowe ere fed in your district to such an ex-

4496. This precion differs materially from the conto me other dutinets, because these the createries down in other dutinets, because these the creatments rises down and do not do saything in the winter months, and the result is that there must be no experient decrease in those districts.

4407. Do the oreameries sell new milk?—No. farmers very strongly object to that—the milk mapliers and the greamery organisers do not like new mile to to sold at the occumeries.

4450. What would be the objection—would not the

6099. Do the farmers sell malk?—I do not know of

6000, Do the termore see a vendore of neith in tens up who do it. There are vendore of neith in tens up who do it. There see wendor, supposing a collection of the seed of the Some labourers keep goats. We sell r people who are not resident on our farm. 4931. They are weeking with you! - No 4502. You oblige them by selling the wilk to them?-

4333. Does that custom prevail emanget people who ore cogaged in the same system of farming in which you are cogaged?-Well, I do not know of any others

4506. That is what I wanted to know?—I have not bested of anyone who does not supply his laboures with milk. I was told it was part of the contrast. An milk. I was told in was part or ran contents. An outling here has generally a core.

400. In view of that incl I take it there is not wreally a score for pure in your district. Not in the series of sassety in Meetly or Denigal. I do not think seems of sassety in Meetly or Denigal. I do not think

4905. I take 26, it would rarely occur that a person who had money to buy milk sould not precure it5—I layer been told that it does in the country three or lang-4507. But you know not may celest knowledge of the fact yourself?-One may told me he has no sulk from

4508. Those would be small farmers?-Yes, 4500. It is owing to the fact that they keep a limited stock of cours that they have a limited supply of milk, but they are all coordinates?—Yes.

4810. I presume you mean that they would not be without it entirely, but only have a limited supply 5.
They may be out of it for a few weeks, but they can get what weekd colour their ten from a neighbour. 4511. In the separated milk uned as food to any considerable ordered—Mod as much as we would like a have it used. We are adversaling its use, and trying to get people to use it. We use it ourselves. We think it a uniful food. 4512. Do you think at it usuful for children?-Not for miners.

4523. I mean for growing children from three years and upwards. Do you think it is a useful food for them?—Ees, with other foods solded to it. 4514. Is it used to any considerable catent, think, by the people for children of that age ?- It to used in making firead, and they use it in cooking, more or less, but not for drinking as much as they

folia. Is there a perjudnee against the use of is?—

Yes, there was a great deal written accost it, and a great menty people spoke about it as not being useful, and there was no idea that calves would not do good on is, but that feeling is dying out.

4325. And you think it is being more universally used then in the recent past?—I think the use of it

see tunes food is growing, and that it is soltnowledged as burnes food is growing, and that it is soltnowledged that it is a good food for calves, and has no mynricus results. I have have it he evidence of the gordlema who proceeded me, and he spake of the calves determining, but I would like to know what them calves were find on before the creamens were estabhaded. If they were fed on new milk it might make halted. If they were not on new must be suppose used a difference, but if they were fed on bottermilk I do not see how that could be a more nounthing feed to calves or children than separated milk. There is

not see haw that could be a more novembing food for culves or obliken than separated mill. There is nothing removed from the separated milk but the importists and the fets. Fure separated milk, with separated course added book, must be a puree milk than any other. If you look into the separates after the separating in finaled, I kinnic year would be perfeetly astorished at the amount of fifth that revealed only automatica on the amount of mile tone extrement.
4527. Do you think that a substantial number of the
étiters or labourers ere deprived of a reasonable ottiers or confident or impossure one acquired of a reasonable quantity of milk owing to the scarrily of H9—Yes, I

think when their goats cease giving mile there is a searcity. Nearly all the poor people keep a gost feel along the med, and these goats in our neighbourhood

acong the relay poor also.

4618. Their period of inclinion is very immited?—
Yes. I went into one inhousers house, and the woman told me that she had no milk at all now, and that her children were rearriesally living on ten and Indian mean.

4519. I am afraid we would not be very likely to pro-duce a very healthy population on that duct.—No. We out her in the way of doing better. Her husband had

put her in the way of doing better. Her husband had half an acre of cate attached to his cottage, and he was going to sell it, but we persunded him to have it was gauge was more made into mode into media and person of the bumbler 4520. Do they use porrudge among the humbler 4520. Do they make use St., but not the inhousers.
4521. The furners use St., but the habourer not at all.—I would not say In not at all., but very fittle.

all had weened not say not as all, one very bound 4502. It there a prejudice against the use of its— Thoy say the challent like ten better, and they would have to got up very early in the meening to get the perileps ready for breaklast. Most of the labourers have to commence, week at 8 o'slock, and have their breakfasts before that time, and it is quicker to bell a kettle and have ten than to prepare the periody. 6523. That discounts its general me?—It has some-

Ging to my to it. 4524. The farmers who are not so much bound to 4524. The firmers who are no so much flower so time as the inhourers can afford to wait until the porridge is prepared?—Yes, and they use it.

4925. Ledy Evenam.—You have got very little fettering land in your leadity?—On our ferm of 215 serva we have not more than five acres of fattering 4006. I suppose all the culves reared in the neighbourhood are sold as store?-Since the creamery reightcurhood are sold as stores?—Since the creamery skerted they see the actual result of everry gallen of milk, and we are teying to get them to keep their ba-heffers, and they are secretizes kept for cows, but the great helik are sold as stores.

4607. Do you find constanted milk is used in your disknowled Very little.

districts—Very little.

4898. Dr. Moteman.—The land, of course, would be suitable for tillage if you had sufficient labour?— The sub-odd is almost colirely yellow clay, and that makes tillage more expensive as compared

or limestone, and it is stemetimes late in the year when spring-ploughing can be done. \$259. That would make the winter feeding a little sees expensive?—Yes, if a farmer has seen of his owe, and has not to employ labors, it might pay him to till, and we are experimenting on our own face.

4520. So far as you have gone you think that at \$4 a gallon it would not be a renuncrative undertaking?

My brother said so to me curbs or ten days ago. but we did not quite agree with him. 4581. Mr. Canrena. In your once you are paying for all your labour? Nes, and ours is a ferm where for all your amour?—Lee, and our it e some weers my brother is not always of home. 4582. The ORMINAX.—You have an advantage on

the other side that the product of the milk is sold at one concer has not on process or the finite state as a price higher than the ceilmary produces would be likely to obtain. On you tell me how much higher the price you get for your bottor in this market, but than the price that the ornamery gets?—I cannot answer that question, because I would have to know

4533. Does your price vary in the different seasons?

—Xes, from November to May, and from May to November, but not from month to month. 4534. You have a regular supply of exetomes?-Yes, we have a regular supply, and when our contourem are on holidays we send our butter to the consery. 4505. Mr. Wilson.—I want to try and understand why this labourer you spoke of was unable to get milk. You mid that the district is full of small and that they all have milk, and that there is a big creamery in the district?—There are a number

farmers sending milk to the creamery, and ce names summy more to the destroy, and the figurees have good relations to sell one wills. They do not like to sell it in small quantities. That par-ticular man it mentioned was undertennishly situated. 4536. I would like to get year optroon as to why three should be an objection to tell new milk by the econocy from the framest—I sound tell you way there is by the creamery. I soled the manager and be only said the farmers do not like it.

4377. The point that I wanted to try and get at a,

4377. The point that I wanted to try and get at a,

whether the small man, it he is buying the milk, pays

more than your are getting?—No, that is the price

winter and summer m or visinge—84 a gallon. They never raised it.

4000. That is better than the creamery will give them?—They do not think it better in the winter;

they get their separated mills back. I curnot really answer the question. The fermers will give milk to a man in the case of illness, or if he wants it balls. without charge, but they have an objection to self They are extremely good to one another, but they object to sell their milk. There was a large meeting They are extremely good to one amount, not many object to sell their milk. There was a large meeting in the village at Killesbeedra, and I asked the manager of the greatery if we could get three pallers of milk. of the greenery of we occod got terms guatem on mus, and he soid that there was a distinct objection to selling mills from the creamery.

4599. The hypothesis as that there is a shortage of milk in your distinct—This labourer I spake of was not must the village, where there in a sufficient supply.

Anal, I do not easy to seeak of the experienced case. 4549. I do not want to speak of the exerctional can

4340. It 40 not winn so speak of one enceptions are. There is in certain places a shortage of mile in your district.—You, but not in the village of Killenbandra, as far as I can find out. The farmers who seed into or four miles out of Normalité on.

6401. That is where the aborting in Y-Yes, I cannot find any sheetings in the village. I may exploies that the creametice do not buy the mills from this immers, but pay so much for their butter fair, but if the reteaments were plant to take a public or fault out of the former's supply and sell it havy would have to give a different pict for these fars for the ret of the mills.

and that would complicate matters. 4562. Mr. Carrunna.—Are not the farmers very keen on getting back the separated milk for their naives?—Yes.

4543. They will not sell the separated milk?—They will not sell milk at all, I thmis.

454. The Chunzan. Do you think the restrictions imposed by the Darries and Hillschops Order in any degree opened against the sale of milk by the fastness?—There has never been milk sold by the fastness?—There has never been milk sold by the fastness?—There has never been milk sold by the farmers?—There has never been milk sold by the farmers in our district. I do not think it does. To sum up—my experience is, especially in the case of the small farmers in our district, that there are certain periods when there is a searcity of milk, and that essent labourers in the country find it very difficult to get milk, but that covere resisting in the village can get milk, but that course reasing in the village was put a supply of milk. There is part one other thing I should like to my about the Dalries and Combado Order. I consider that our consider are transmissively in need of impection, but I think it is a pity that the

Mass Majorna London. 25th January, 1913 4560. Pornigo is not a very general dust throughout as country?—It is amongst the farmore.

anniary officer should not be made the medium of promention. The members of the District Council see all almost optively drawn from the farmers whose sheds are liable to imposition. I have never read of any prosecution against people in my district for not keeping their cowinds in proper condition. I think the medical offers would be more independent to order presentions than the Dutriet Council. If the Council obtain reports, they may take no collon in regard to there, and that is the reason why I would like the ower of prosecution put in the braids of the medical

4545. You think the medical officer should be empowered to order proceeding independent of the District Council?—I think so; that is the great him on the 564-thet it is being worked by the lend of on the Act—that it is being worked by the kind of people who see liable to have their own premises

4566. You are not, Miss Lough, the only person who has directed the attention of the Commission to that Has saything been done by your Lood by with recard to inspection—have they on Authority with regard to inspection—have they an inspection—have they are inspection—they have a few and inspection of the control of the con would appoint an imperior undependent of the Cosmoll, if the Council did not appoint one them-Cosmoll, if the Council did not appoint one seem-selves, and then there was a men appointed. I know myself one result which followed from that appointment. I visited a house which was beneatfully

kepk, but obces was a mixture heap in the yard, and the woman said, "I suppose we will have to remove is now that an inspector has been appointed. 4547. Mr. O'Barre.-I think you said that Id. per out is the customary price for wilk in your district?-

Yes, in the village. 4548. Can you got a cloudy demand for milk-supposing that you were to sell unit all the year round

willings have a steady demand.
4849. If you went into that made yourself, fasticad
of making butter, do you think you would get a stacky
demand?—If I could persuad the people to come to
me indead of to their persent suppliers I could. Those
is can bup place where they go in the pure-prod cashler,
and they are willing to provide the definency in the
milk supply as the same pane as it is sold at present.

6550. You say that you worked out the value of your 4551. What I went to get at is, is that taken off the cakes wages -No, that is the gross.

4500. The value of your crilk as drawn from the cow is St. a police. If you could sail your milk at 8d, a pillon without say further handling than the militing and putting it into the tenhard, it would pay you belter than turning it into butter and cending it to London? I suppose it would, but then yet would your stock. Last your there was a big posit on pork, which we sold at over 60s, a cut. 6553. These are a sort of by-product of the milk ....

4554. And if you sold your milk you would have

4555. Talking of the Dairies Order, has it made any difference in your district amongst all scolary crestories—has it prevented may of a eav of the I did not know that farmers sending mile to the 6556. They we.-I have not beard of it making any different

6507. It has been meintened that it has affected the creaments in cartain distincts advertely by pa venters the farmore from scrading milk, because they would come under the Order!... I have not know that it had stated. I did here one person stating that it had affected the milk wedges. The write sweet to an I did here one person stating that it had the milk worders. The milk supply in our dustrict has steadily increased to our errangery. 4558. You say you use separated milk yousself for human consumption with good results?—You.

the country?—It is amongst see immore.

4891, And they use againsted milk with it?—I do not think so. There has been a great prepaise against it for use as human food, but that prepaises is dying out. 6502. The CHAIRMAN. suffer from the projudice?—Yes, but they are gradually

beginning to outlive it.

4008, Mr. O'Benry. I think we had evidence that atmost perings used with separated milk ords-peatly to the value of the separated milk —Tex, I use it myself, however I do not like the such milk. Our separated milk is very good. The sevents would not take operated milk. They thick that it is is cooked it might be singlet, but they do not like un-

peoled repeated mell 4564, Mr. Campung,-It is not as good as now 4565. The Champan,-But it is not as bad as they 4666, Mr. O'Bons,-They drink skim milk?-No. 4065. Mr. O'DOMES.—They drink seem mane-eve, they will drink botternilk. 4067. Though probably the food-value is less than that of the separated milk?—Yes, it must be less. 4556. Bir Sprwarr Woodnowsp.--Does fat becom

enter largely into the diet of the people?—No, the people have got out of the way of curing their own becom. The American becom is felt, but the lighter 4509. In it not so fat as the American bacon?-No. 6000. In the American bases used in the sums way, that is by dipping the bread into it?-I do not know come may suppose for irred situo itra-1 do not horse, the first is not, but there is a psychiot against post-1, where is not, but there is a psycholor amongst of the larger farmors against them, on account of the larger farmors against them, on account of the larger farmors against the properties of the second of the larger farmors and the winder and based against town in the winder and based against the amount of the larger farmors are supposed to be permission in the properties of the second in the state of the larger farmors are with the manufacture of the larger farmors are winder to experience with them also be that if also a warder to experience with them also

should take a farm of her own. 4572. Is there a feeling of pride amongst the people that is operating against the keeping of the goal !-

the small former. 4573. Miss McNutt.—Has anything been done about the goals in your neighbourhood?—We heard

of two new sires central into the district, but we do not know when they are. Our notor told us that he new a strange-looking gost meantly. My sister intends to take up the question of gost-keeping. 4574. Do you know the ordinary yield of a goat?-A woman told me that her goat gives three pints a day, and she mentioned that fact with pride.

4975. For how long?-About six months. \$570, Mr. Company....These plats is very good?---I think it is unusually good.

4577. The CHARREST,-Was the 940 guiles cow-resent on your own pince?-Yes, we tend her our-

4708. Do you know anything about her mother's militing qualities: did she come of a good line?—Yee, her mether was bought at a fair, but I cannot let you very much about her, easily this, being a good ow, she was visible and inside with this red bull, which was bought from the Department in 1900. Mr. Caursezz, The red Lincoln shorthorns have get rather a reputation for milk, and we bought a draft of them, and this one went to Killenbandes, and they are all from good cows with good records.

are all from good cover with good records, 4999. The Cantenax—Here you say other cover by this bull at the dairy at precent?—We have a Jersey storbhorn, and her record was essentialing over add golfant a year, and then we had a third cove, but strongle carries mothing for other west wrong. The Jersey say the colour of the cell Lienceln bull, but was colding first in more. 4509. Do you use it with outrast porridge?—I do stendings, but so the corvents' hall they use new milk, we use it largely for milk puddings.

4580. Have you over tested the milk for better fact Her milk was so good that in the dairy she was believe than the own that gave 940 gallous. She was some profitable for the production of bother

Mr. JAMES H. M'GROSS examined. legge men our visits are made when the milking is 4981 The Courses .... I preferatored. Mr. McGrane you are Impector of Delries in the Scoth Debhn Reesl District 9—For.

4382. Can you tell the Commission how many dury there are in your bullwick?-Staty-nine rests-These, I take it, are all outside the Circular-

road?-Yes. 4394. Are they purveying milk in the city—the owners of these deimes?—Not all. Those that purvey in the city have to put up a number which is obtained at the Public Health Offices in Castle-street. If they

serve milk in Bethrefues they have also to register 4585. Do you find owners of dairy hards are, as a rule, willing to conform with the regulations had down in the Dairies and Milloshope Order?—Yes, the great

majority of them seem perfectly willing to comply all the rules and requirements that the Veterinary In-spector or musel require of them. There might be perhaps half a down that we have a little trouble with but the great majority are quite willing to comply with the rules and set on the successions of the sterinary Inspector and myself, 4395. Will you kindly tell the Communical what con-

diffices are necessary in order to secure registrationis a form to be filled in by the applicant. The cowkoopers make an application to the Bural District Council for a form to fill in. There are certain spen-Gone in that from to be answered by the applicant and when the form is sent up to the Ruesl Council that as sent on to me to report on.

4987. And you make so inspection of the premises? -Yes, on receipt of the application. 4588 And if you should have any doubt as to the solidability of the premius, you refer it to the Veter-nery Impector?—List.

they start to carry on the tende. I don't remember they start to carry on me react. I own a renormalization and applications until the people have started the trade. In fact, come of them require to be beaubed up to make them register. They have frequently to make structural alterations in the sheds, such as concreting, ventilation, sewers, and matters of that bind 4990. Do you find that they are always willing to conform with whatever improvements you think destrable abould be carried out?-Yes, they are fairly trade are clear—that their hands and persons than, and that they steam the milk. The great majority of them, perticularly the richer men, seem to take special once in regard to the milk, using a double stealner-a cloth over the perfected wire stealner. 4091. I take it your visits are paid premissocoly?

You. We have no settled time for vailing the places, and I never observe a special order in regard to the

4592. You have no fixed day or hour for calling on the cowkeepers?—No. I with them every day emerge Thursdays. I know that on that day they are away, hat on the other days they do not know when to ex pect me. There is a further chart on them by the post its. There is a timber emore its away by not velorizary Respector, who visits independently of me. Perhaps if I vanted a man to-day, the Velorizary In-spector might with him to-increase. There is no us-rangement between the Volorizary Impactor and my. self as to when we shall make our visits.

suff as to whom we obtail make our virute.
44000. Do you think that his capitation of the requisitions had down in the Dairies and Casecheds Order has, to your own Inseedings, interpreted has considered under which mift is predoced?—There has been a vast improvement. Since I became Improve the confidence are very much improved, belon so to restriction and see core of the sermals and elevatiness. to the elee or the minimum and secondaries. An dairy keepers have water and soap for their men. 4504. It has become a recognised custom to observe the conditions laid down in the Order, and you find those cargoged in the trade willing to co-operate in carrying out those conditions?—Yes. We solden up on the very small people with one, or two, or the

going on-we are the strainers and the workman, and 4366. And the vessels into which the milk is poured? "Yes. I give special male relicions that there shall im-mediately be circed in cold water after the deliverof the milk and sealded afterwards. We prefer the vessels to be first rinsed in cold water in order to take

solve the fute that might reman. some one may that magas remnan.

4006, And have you reason to believe that show conditions are charrout?—You, we have every reason to
believe that they are fairly well complied with by the

dainy owners.

6297. Do the workers engaged in the industry resent
the introduction of new methods as compared with the
old methods with which they were funding?—We find
there are no comprising. I suppose they would not there see no complicate.

think it right to complain to us.

498. Whatever their views are they keep them to themselven?-Yes. If we sak them snything about tnementwer?---Yes. If we sak them anything about the weaking of their hands they appear to know that they should comply with this condition What I wanted to get at was this-whether or not they bad come to recognize that the methods which

not they had come to recognize that the in-teros white they had practised in the past would not be permitted now !—They are critic well aware that the old methods would not be allowed to easet under existing circumthey could handly corry on the trade with all the restrictions. Occasionally I bear a granuse was 4600. Have you given any consideration to the quantities. 4600. Have you given any consideration to the ques-tion of licensing as compared with registration, and, if so, would you be in favour of becoming dury keepers?—Well, I have not given any show throught to that, I don't know on what conditions the hornor

would be granted. 460). It has been suggested to this Commission that it would be desirable, in order to ensure the oven more rigid fulfilment of the conditions laid down, that houses should be invited to possile engaged in who proposes to embark on the trude should be considered in the first metance, and the suitability of his premises aboutd also be taken into account and inspecied befree use memors was present to assume think that it is necessary. The people seem fairly well deposed to preduce the milk under reasonable conditions, and I do not know that licensing would be ressor. Already the price of rolk is very bich, and I don't know that it would be well to hearper the dairymen too much while we feel certain that they produce milk under proper conditions. I don't know that it would be well to impose any unspoonery hard-

4603. The suggestion is made in the microsts of the public health—that it would procure the production of clean health milk, and that if forther vestrations were imposed on the convergees and that these conditions added to the cost of producing milk, obviously the vendoes of the milk should be at liberty to vary their over or the max normal to in interty to vary than prices in secondance with the normance cost involved in the carrying out of the conditions imposed 9—I think that that would have the effect of burnishing score people out of the trude, and if you limit the number of second carrying on the trude it would he reasonable to uppose that you would increase the price of milk, and suppose that you would increase the price is rather pro-ulready it seems to use that the price is rather pro-bibilitive to the labouring classes. They find it difficult

already it seems to use that the period is resoure pro-biblive to the lobouring classes. They find it difficul-te make up their minds to purchase enough milk at present for their own purposes.

4608. I am anxicus to have your view on that ques-sion, and the reason I put it to you is thee, that it has been suggested to the Communion that it would has been regionate to use Commission was a security to be a desirable condition to insert in the granting of the applicant and the circumstances surrounding the premises in which he proposes to carry on the trade should be taken into consideration before the licence into consideration before the licence was granted. Your opinion is that that would curtail the supply of milk and lessen the number of people corrying on the ende?—It would become the number carrying inde. They are at present grambling with the regu lations they have to comply with. They seem to think that the restrictions are rather harnesing. I am not owner that a single case of infectious disease has been

Mr. James H. M'Grave, -25th January, 1912.

400. You are speaking estimely of the Burnl District—Wes, only my over districts, 4000. You see furthers, 4000. You see furthers, where you make yourself—Lot, 6000. And the other part of the country where your circles duties take you'd the country where your circles duties take you'd—Lot. tiff. Is there any difficulty experienced by the

isheoring classes to secure a supply of milk for their families?—I om ture the supply is very considerably numero—a on title the supply so very osciolosistic limited in a great many cases, and it is very osciolosistic political and a supply so the expense of the milk. Feorgeone a quest for new milk scales a hale in a inhonerer's wages.

4000. What I wanted to know in this—supposing far the milk categorial that we question of inhollity to pay for the milk extered into the malther, can a inhoner, who his money to pay for malk, always province it when your he wishes? There are very few onses in which a over an energy - Here are very sew once in which a man having money would not get it. The cow-loopers are funly well distributed over the district with which are accompleted—the districts of Palmerston, Clon

4600, Do all of these damy-keepers sell malk in total smantities at their dairy made?—Many of them

recell quantities at their dutry reside—Many of them do, to that all A few of them can lather miles to the do, to the second of the second their miles to the dollar period of the second their reduce to 460. By you have for what reason they reduce to sell by retain—I don't have that they about the reduce to the second of the second recogni-cies, but it may be don't get content except the second results and the second residence of the second results and the second results are self-diffused to the second residence of the mile of the retail study. But there contracts on make for copyling whether the other processed at the mile of the retail study. The second retails are the the retail study for the precision of the convergence of the contract is seen from the precision of the convergence.

4812. In it owing to the difficulty in collecting the motory, or for what resears !—The chief remain would be that they don't life going to the bother of measuring out the milk in small quantities, and there upond a difficulty in a great many cases in collecting soney. Bendy money is not always to be had 4613. Are there a number of goats kept menory. Bendy money as not always to be had, "
the bendy money as not always to be had, be the bendy money of the bendy bendy be the spending of goots throughout the boodity, but the spending of goots throughout the boodity, but the spending of goots throughout the boodity, but the spending of goots throughout the between the large of the spending of the bendy bendy the spending of the spending of the bedges for half a cone where the past booked the bedges for half a cone where the past booked the bedges for half a cone where the past booked the bedges for half a some where the past booked the bedges for half a some where the past booked the bedges for half a some where the past booked the bedges for half a some white the past booked to be the past booked to be the past booked to be a support to the past see a great some of among one to be absorbered. I am only the past booked to the past to be had."

speaking of my own chatries.

9124. In some districts in South Dublin you groups of I 6515. These have land attached to their coltages?-

4616. Do these keep mate?--Some do and some 9017. Do they get a regular unit supply, such, if so, from what source?—There are distry-deopers in the interior that supply them to a certain extent, but I don't think they saw get a sufficient supply. I cannot

any that they get an ample maply. 4618. You have weret new the milk-muts driven sing to those cottages as you see them penning through filles the cottages as you see them penning through Killes substantiated.—I have move soon the milk early stepping at the doors. That is away from my district, but in my own immediate angebourheed I see the gigt stopping at soltages along the sand.

4619. They do stop and give whatever supply the prople are disposed to take?—Yes, in my own neighbourhood. I have acular demonstration of that

4020. You said that some of the cox-loopers is your

4081. Have you over had any magazy from the Local Authority in Bathesines, or from the Corporation of Dublin, so to the condition of a certain dairy in your disease, or suspected of having games of disease in it, had been supplied?—I have laid no sugary, but in my own district the Enspector from Betherines, for instance, was next out to impect the dairy, and to

seme reason or other. The case that is most impressed on my mind is this—a darry-keeper had not regis-tered in Bethennes, and the Importor some out and seron in failure and found it in perfect order. She told the proprietor of the dairy that she did not know whether setton would be taken against him for errow wascener action would be taken against time for not registering. Action was taken, and the propertor was fixed for not registering, but there was no facilifound with the precisions, of the series of the found with the precisions people wind milk in your distincts who do not register?—No. 4923. Would you be the responsible officer for means that vendors were registered?—I am not the sufficient that vendors were registered?—I am not the sufficient

tor registering. My duty is to separt when an applica-tion is made to registration. Of course, if I knew persons who were salling milk without being registered to a pronecution, and would make the fact known to the proper suthernty if they continued selling milk

AUSA. So you think that the number not registered would be very hunted?—Tes. I have given erzience in cases where people did not register their premises, and convictious were made against them. 463. Is builtenailly available among the process 463. Is builtenailly available among the process closes in your district. To a limited artem. They don't get it fours the dancy people. The sawkeeper don't claum as a rule. They profer selling their selli-

as it comes from the cov.

4636. You expension is very considerable in this instrate—Yes. I have an experience as inspector and also as a resident in the country off my lifetime. 4627. Have you ever known a case in which an outbreak of informous meases had been traces so max must supply "-No. I sen not owner that may indication discone books not in my district from that came. I shou's linew what may happen in Doblan. 460%. What I would to know it this, hes the question ever sensor that the milk supply wes there a strike there have been a case of infections there as attributable to the milk in may place where our milk as sold but one of the first steps that would be taken would be to send an importer to impost the percoase from which the milk come.

4029. Has that been done in your own district. 4630. Have the Rathmines Impectors come your district for the purpose of menny the conditions under which the milk was produced?—I am not aware. I have frequently benefithed someone from the city came to asspect the dairy yards where discuss occurred among the Ismilies supplied with the mile. 6331. That is what I want to know; have the Local

out. That is want a want to move have use Loon. Authority, where infectious disease was found to exact, occur into your distract for the purpose of examining the source of supply?—Yes. 032. Have you known of it bring done?—I have beard of it bring done—that Dr. Russell or someone nan produced after these improfessa?—No. I suppose the processes were found to be alright. I have never

been called upon to take nation as a result of three 4654. Here you known medical offices from the sale

4635, And then write have not resulted in proficed steps being taken for the improvement of the conditions under which the milk was produced?—No. I remember no case where we were called on to make any alterstants in the conditions under which the

6990. Do heavy of the cow-keepers in your district supply large monitotions in the only?—A less of them the companies of them supply the Loren Delry, and some supply beopitals and bottle.

4687. Does any mak come

4607. Does any milk some into your district for distributions that is not raised in the district—focus any some by milt—Mo. It is to Dublin it would come by real. Nom of it somes into my district by real. 4688. And no duty is imposed on you to make any inspection of the conditions in which the milk is received at the stations?—No. No James H. M'GRANZ,-25th Jensory, 1912

4690, That, I suppose, would be for the City Authoritars—Dots. We often here compalisate that in a hardship or milk producers in our district that they must comply with all the conditions load down in the Decree and Cowhelds Onless out that the popular in the country one confling in milk without supervasion such as is excreesed in Dublin.
4690. That is a cause of complaint enough the con-

4000. That is a cause of complaint among the cenhespers of the City and County of Dullin-Hat they are stdiged to conform with the regulations of the Duiries and Milliologie Order and that other people may compete with that in whose distinct the Order may not be in operation at 417 – Quite so. Dur people are complaining that they are comparing with people who

not be in operation at all?—Quote so. Our people are complaining that they are comparing with people who are under no inspection, or who are not required to put their permisses into propr condition. 4041. Dr. Moosmann.—What do you consider a fair regressivities price to groduce nell's de-what ought the

militarin pet for 1's milit — The distymen imited that they are working at a loss all they don't get 4c, a quiet. Last year it was more copenium on the distyment than it was in other yeas.

4642. In your opinion would they have a profit at a lower price bloss 4c, a queet?—I don't think so. That is the general opinion that I hoar.

4845. There is no ensumers in your district.—No. 4844. Mr. Vironie.—I would like in know your as 4844. Mr. Vironie.—I would like in know your as very longe engerscore at the time whim planne query longe engerscore at the time whim planne query more was in cuttience, with Mr. Lewiye, which we fee Longestor of the South Dublin Union or that time in possion was in cuttient of the south of the country of the cou

6945. What would be your yorss as to the proportion of the dairy cows of the present day that suffer from tubercolosis.—I think we are very free from it in my distinct.

my distret.

4666. That is to say that you mayly or never discover a diseased our 8—It as guite a race theng to discover a cover in my district polyphily effected. Then might be a great many national in the district that would not pass the test of it were applied.

4647. I am speaking of the polphily discused cows?

We see particularly free from toberculous in our district.

4648. Bave you any idea what happens to the cowe that get subreculous—are they said of?—The could seem to be very healthy, and it is the Veterinary La-

the our se sum or worst forgat bit forger to suppose or the our se soon, as possible. The Vaterinary Engeltho could give you more information on that point than I could. 6049. You are in charge of a country district?—I are, 6569. Is that a duttient to which the tormomonia-

4656. Is that a district to which the terrespecials and their cores to grose during the summer?—Yes. The cettle go out for five or six months—from April to November.

4651. During the winter months these cores are not under your supportion?—No.

soft. What around of supervision is given to that type of similed in the summer vision when the in one gases in the country.—The cown are put out to the fields might and morning. They are more bound at all these. They have pleaty of mr space and me relating the companion of the companion of the cotangent there would be that the might plant out of the milk or kept bints heads about but the things that we have to they appreciate motive of are about when the milk or kept bint heads about the things that on have the milk of the control of the properties of the winds of the milk of the country of the country of the winds and the country of the country of the country of the milk of the country of the cou

olds. Mr. O'Reine, —You my that the people wanting milt, such as the laborary, would probably be side to get it without much difficulty if Sety had the money and wiched to buy it?—Auyons who is prepared to pay the price can get it.

6354 And you think it is more a matter of price than anything else?—Tes. I think the people do not think that the mile is worth parting with so much money in.

4601. They do not recognise the food value of 115-

4400. You do not limit it in because they would be expected to go one far it it in more that worst be not concerned to them?—The hore would not be so in convenient to them."—The hore would not be so in convenient for them. These who keep core out in the ownerity, there ease go not to deliver notifi, may, vii. 7 offorth, and this would be a very convenient loor for the convenient to the contract of the contract

controper.

4068. Durt you think that is one of the difficulties—that they don't thank it worth while going perturbation of the property of th

50cl and the polyte serm to have measurpse energy to the control of the control of the control of the charge the mind of the control of the control things they profee to the coll.

50cl. This, why leed on it as coloring for the cocept for the challent—Fee. It is only for coloring to the coloring the coloring the coloring to the Thirt is cut of the foliation. Feed and the see that same support. They are living a good deal bettler than they find. A great many of them would not have been-

quarrity with most of them. The same and the same papers of these cover that are housed in the sily for built the year and go cut to your district on goes during the summer not one melliod out in the country, what facilities have the most for elementy that the cut is the same and the same cover the country what facilities have the most reducing the lands when on the fields?—Where there are cover kept there must always be written to want their lands.

there must always be write to weak their hards.

4601, These is the van a varget; of water for weaking their hands — Yes. They must have water for

4688. We have bestel that in a runner such as we
had look year the wolter was very searce, and what

founties weed they have him for cleaning their

feorities would they have then for clearing their vessele?—Cows cannot exist without valor. They must get it. The more live on the fram where the cows grame, and there are more of these places quite destinate of water. 4655. Am the milkers bened?—They sleep out on

very some the subursh, 60%. As whay bound in actual houses!—Thyse somatimes live in horse and cottage—it depends or the accommodation on the farm, but the rean must always be provided with alwaying occumedation where they see any shattane from the colories. 40%. You are statisfied that they do put proper facilities for watern they bend, well assistantly in such

ties for warding their broth, and put for large three their ties for warding the received by a first batter and or make any make a margin and the same and any large tree three my makes have an ample apportunity of cleaning their models have an ample apportunity of cleaning their batter proposes. I do not know my place for all the same tree affects from the proposes and the same three trees are proposed to be a supplied to the market three three three trees. The my offers the proposed to be a supplied to the same trappesed to the sam

into Dustin and the field came are supposed to the cleaned in the shops.

See a suppose the suppose of the suppose the suppose

4998. Sir Strumary Woccoscow.—Do they use perservatives on the dairy farm—on they put things into the nife for the purpose of percenting is petiting sour?—I summer say that. I know some of them refrigered the milk on the farm.

609s, 100 m to not never that they put bornete acid or other preservatives into the milk?—No. They regard of without my long it. I think it is prebable that some of the preservative closering stof into the milk, but I don't move wholese they are preservatives. They would not be Bleit to those maintthis conditions. In with one to Bleit to those maint-

into the mile, and I don't know wholver they are preceived as. They would not be likely to take me inthin confidence in the matter.

4611. Miss McNutt.—A former witness stated this scene designous sensing on mells into Duklin, took basis in their cans waite from hooks?—I never bessel of such a case. You talked maybe to purposingly.

Mr. Janes H. M'Grane,-20th January, 1989

Mr. J. D. BHENNESS, M.B.C V.S., examined.

6672. Yes.-I don't think such a thing would pen as to bring pig-feeding tack in the vessels that brought in the male.

973, It was deficitely stated here.—I would be very much supplied if such a thing could be proved

I have seen people occurrently, but not in my own district, bringing in refuse, but not in the worsels that likely.

4674. The Channex—You are a prestraing Veterinary Surgeon in the City and County of Diskin?—You. 4675. And you are also Vetermany Improve for the North and South Diskin Distinct Countin?—I are. North and Scotte Dates and Commission how many intries there are registered in the Scothern district?— Sorty-nine, and sewenty as the North Dielector. 4677, What number of cown would those books nbrace?--1.760 m the South and 1,060 m the North

4998. In the commer scason, of course, you have almost the course herd of dairy cown in Dahlin graced in these two districts? In the three districts,

4879. North and 8000 Insurance are, falledbary.
4899. There are not so many gaing to Balrothery, 4899. There are not so many gaing to Balrothery, 4801. Do you make regular inspections of the dairy younds as your faction of 1-20, once a manifer of the 4802. What is you experiment to the property of the second of the property of the second of the property of the pro number increased or diregulated?-There has been as North Burst Distracts for the year 1911. 4683. That seems rather an alarmine increase. Dail dairy-owners, cut large contracts, and increased

6086. And they bought the cown indiscriminately, do 4898. And they begin the cores indiscriminately, do you mann?—They bright pure cores.
4893. I am not talking about the guared meresse in the dury bredly, but shout the souther of tuber-colour animals?—There are very few believed to the colour animals?—There are very few believed to the colour animals?—There are very few believed to the colour of the 4696. I sm very gisd to hear that, because you startled me. Do you think the number of discussed unimals to your district his dimunished or uncreased?—

4087. Have you, in the discharge of your duties from —I here. 6688. What course is followed with regard to them? —Any cettle I have a suspection of I take from the healthy stock and put them on one wide, not waith the owner's connect I test there. — (4699. With the thirtieschin test?—Xee, and when

they cost hedly the antitle are staughtered.

1660. Where—at the Abstinit?—No, as O'Keeffe's at the owner's own request. They get no componential whitever for the outile that are shoughtered. 4691. No compression?—No compression.
4692. Is not the Local Authority empowered to give outpensation?—No, they have no power in the Burnl

districts.

4896. Is it not given to the City 6—It is given as the Cits, but not in the County.

4694. I was not sware of that. I was rather under the improvance that the verse rule provided in the City and County, and that it was possible for the Improtor to give compression up to \$102-Yee, in the Cay, 4666. No such powers count for giving compensation in the County?-No.

10 the County -- no.

4606. So that in reality the axional that is subjected
to the test and found to be affected with tuberele as actually alonghoused with the common of the owner? "You, the " posers."

1007. Will you tell us how many of such cows to 4600, Will you red us how mady of such cows you have constroued to shoughter, say, in the last five year.—Within the last year, six allogathm.
4600. In the South Daubin district.—Four were shoughtened in the South and two in the South Bayal.

4609. Do you make an inspection of the exposure after the alaughter?-Yes, from the mangatory—son.
4700. We see if there were tobuscular lemons?—Yes,
4701. And you found them?—I did. 4702, Mr. Wr.son.-It is quite legal for the soutlesy nethority, whether in the County or City, when he orders the destruction of a cost to give compensation.

4703. The Commun. This is the possage to which they which reduce :- "Any abstrary attracted may, it they see fit, cause to be alsoghtered my miles one that is certained by a veterinary surgeon to be affected with tuberculous discuse of the addr." "-The nattle

to which I refer are not cattle with tubercolous of the 4704. You say differentiating between tobercolous unders and entitude suffering from coneral telespeloses?

4705. Have you found animals suffering from useral teleposations, and having tuberculous uddens? 2706. Hen the number heen large?-Out of 100 affected with toheroulous only three might be affected affected with toheroulous only three might be affected as the order. That is very care the older. That is very more the older. That is yet a seed that. Is it car own experience?—Yes. som own experience?—Yes.
4708 Have you command 100 cows?—I have. I test for the suspetity of the large delry-corners in the County of Dublin. I test four hundred or five hundred.

came every year.

4700, It this three per cent of the animals that have reacted?—Ob, no. Supposing you had 100 oorse, affected with tuberculosis, only three of that number would be affected with tuberculosis of the ubder.

4700, How would you be used of the 25—Xoo would want to examine a you with a had udder microscopic-4711. Do you follow up the staughter of all these numative...The dany people get their cown tested. I o not follow these up. 4712. Which cattle do you follow up?....Only the nce Meet are paners ones 1986 are paints.

4783. Tot says that there are three per sunt, out of
one involved affected in the uddars.—Two.

4784. And I saked you dat you examine all these
outtle, and you said you had examined hundreds of
them.—I have build hundreds. 4725. But you have not followed up a hondred prace to see whether three or four per cent, were affected in the udder?—No, a never new a number pours.

#716. So that the indemnition you give us must be
hearny indemnition, and not information of your own.
knowledge?—The matter that I would like to applish
is that I have tested a good many cautle. A good

4717 How enery meanly did you say were intgrireco-many costs -- very tree, permits five or its in the year.

4718. So that you are not in a position to say what coomings of them have tobornologic of the offers. I are seen very ies affected that way.

4719 Mr. O'Benry...-What he axid was that from
the estimate be but seen, from impection and from making the toborcular bost, been mapsed on soil from making the toborcular bost, about three per cost, of these may have toborculars udders?—Yes
4730. In the course of his business he has examined very many hundred sattle, and out of these hundreds. of cattle about there per cent, may have subcreators uddent—That is no.

sident.—That is so.
Mr. Williams.—That is a very large order.
Mr. Casewell.—The joint was that, not having asopportunity of sceng the suitods shaughtered, he could tell what the processor of the core affected in e sance was, 4781. The Cramman.—Here you evel condemned , or for boving clinical toberculous of the ubder?...No.

4739. You have not seen such a cow in your district? 4733, But you have seen it is your newbood....! 4724. You have seen made name?--- Ves. 4725. Do you make an examination of the cover order to assertant whether their utilizes are in a besitty condition?-I examine all the addess of the natale in Mr. J. D. Govennegov.-25th January, 1912. 4726 Do you find them suffering from any discoun

of the odder at all?-Sometimes I find mastris, and they may get injuries from one cow standing or anotherany kind of mechanical injury to the udder. 4727. Do they ever suffer from sloers on the name? V 4728. Have 4728. Have you over been obliged to sespond the sale of the milk from animals affected with such alone.

4720. Do you find the owners of the costs are assisted

to assist you by destroying the milk and not selling it 4700. Do you find them willing to empy out the willing.

Have you had any difficulty in conuring that the suitable are kept in proper conditions with regard these things very autidiactorily.

trouble in securing 

4335. Have you given any consideration to the question of Security? Do you thank that it would be in imposed on you!—I think if the owners were Branned h would do a great deal of good.

4734. You would be in favour of intensing?-I would 4734. You would be in favour of insunsing—a weed,
4735. Would you go so far as to take into your
purview in granting the horner the personal character
of the applicant?—it would. I think there are some
propels in the trade who should not be in it at all. propie in the trade who should not be in it at all.

4736. You would follow in some degree the principle
land slown in the liquor trade, that the character of

the applicant in the first place should be satisfactory, and that the premises in which he proposes to many on his trade should be saitable?—Yes. 4757. Have you ever known any representative of a local authority in whose district milk was surgiced from your own seus come in to ascertage under

oreditions the milk is produced?—I have
4758. In case there had been an outbreak of our. tagious disease suspected to have been expend by year see that they are alright?-Yes. We never traced any 4780. And you have never been salled upon to oney

out my alterations or changes in the conditions present in sour district by reason of these importances? 6749. Do you attend the Dublin market?-You nearly every Thursday. 4741. Do you make inspection of the dairy some exhibited there for subs—of occurs, I know that you ave no official postnon that would choose you to on 17.—Not for nine years, but I had for sowen years, 4742. I should life to leave your opinion as to

worse than they used to be? -I think we had better or 1743. A good muzy of these estile are sold for expert?—The majority of the critic at present do not experit—The impurity or one crime it prescus on not see the market at all.

#144. They are sold for expert without putting their feet into the markets at all—Ten.

#145. Mr. Winson.—And these would be the best

cottle?-Yes 4746. What do you think accounts for the remark not seen in the market at present—as it because of the way in which they are sold?—Yes, the way in which they are sold?—Yes.

4747. The Charmany.—They are sold in the lairs, though it is securiary to the law, and do not go to

narkets at all?-Oute so. 4748. Do you know whether or not any respection is made of the conditions under which the milk is as I am sware, there is no impection made when the cows are on grees. In fact, last sommer I know some

4749. Is it not part of your daty to make inspection of the cowe when out on grees, at it is when

stease. It is an part of your duty to go and examine a new heed of cows that are sent out for grazing perposes unto your district?-No, it is not part of our 47.54. Your duties are restricted enterely to the some 4752. No other officer of the Council makes say importion of the come during the general period in the summer?-Not so far as I keeps . 4733. Do you know whether or not those engaged n the milk terds-I mean the washers, ere reco

to the milk sevar—a mean and weathers, are more cleanly in their habits than skey were, say, a decade 4754. Are all these precautions taken in the rural desires which you mapon?—Yes.
4703. Do the milkes wear overalle?—No; only in three dames in the South Rural District do they do

4756. It is not made a stringent condition, the venture of these overalls in all daffers?—No, 4737. I take it this is one of the permissive powers 4737. I take it star is one of the permissive powers in the Ouder, that the local authorities may or may not the term "typheid 4700. Do you think that it would be an unreason able exaction to insist that all who are currend in the

this they seems.
4760. You do not think it would be an unreasonable condition to impose?—I do not think it would. 4761. No cose has ever come under your observation

Diblin, in which you have found a own suffering from a visibly telerculous nike?—No. 4762. And of such an enjural should come under your description, and that you thought danger would arise too the use of he rails, what arises would you take

4768. Have you ever ordered slaughter in this in-4764. No such cose has ever armen in your district? 4765. And you have had cous shoughtened that you believed were suffering from general tuberculous and

these were daughtered absolutely without any openion. sotion being paul?—Yes, and by the owners' coment. 4709. And you make that it is possible mass only a small percentage of the number which had been slaughtered would have teleproduce uddors?—A very small percentage.

4707. Lody Evinace.—I see you stated in the summary of your evidence, that a large supply of milk is occurred to Dukin duity from many dismus of Ireland

courects so Justin assity from risiny durines of frequent by rull, and that the owners of this supply are just all imposted by a veterintry impactor, and that conse-cuently is at open quention as to the condition the mility—Eus. I have nothing to so with the units that cornes into the otty. old comma joto une ony. 4768. Dr. Mocement,—Do you helieve tuherculosis reld be outed in a cow?—I do not believe so. 4769. You have never tried say free tobercolin?-I have tosted with tebercolin. 4710. Do you think it possible that the disease ecold

4771. You have never tried any systematic breakment for the cure of tubercelouis?-No. 4778. Mr. Wilson, --I see you stille in your run-mary of ornicuse that is your district there are several

osed (20—100. 4773. Do you know how many sattle are represented y these herds that are free from disease?—I do five bods in this South Dublin Rural District every year. 4774. How many cattle in each shed?—One hundred some of them.
4775. Would they run to 300 cown in the five sheds?

9776. Of these these hundred cows there are note 4777. The once that are left would not react?-No. 4778. And these are exclusively in these large shade

to which you have referred?-Yes.

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Mr. J. D. Raymardon, —20th Jeruary, 1972.

4820. You do not test any in the North Dublin

Union?—No, one for the Revisit Burry Company,

the state of the North Head Dubrin.—I seed one

4812. How long have those people been griding their

670. For how long as him pring an 1—Free point, 470. What is done with the resulting convel—They are see put forte a large shad on the same form. They are 170. As the course mainfeed but they are made 170. As the course mainfeed but they are made 170. These one encoursement should—They they 170. These one encoursement of 170. These one encoursement of 170. These are encoursement of 170. These tree encoursement of 170. These tree approagate the six is that way whose 180. Nogels are approagate that six is that way whose 180. It would be a six of the course of the cour-se cut it they are betted.

they are extending their stock?—They keep the now one smill they are tested.

4384. They see not tested at the expense of the men from whom they are bought?—Some people will not hey world the annuals are tested.

4384. In it possible in Dollin, Market to buy a corsulpert to the guarantee of possing tubercular test?—Yes.

e786. Do you test them as a matter of fact?—Yes, e787. In the market place?—No. 4788. Where?—In my own yerd. 4780. Do these come come in from the country?—

From the face, become the year precision, and you test them. Twice the more piece for a cought of days real them to become for a cought of days real they calve, and they are sensels. I make these tests to provide confeccions and with the contract of the first and the contract of the first and a cought of the first and the firs

Affect, All winners in the new levined?—At the converte angues — T

the problem is period of fact, harding hought these covers the problem into position facts and you foss file in the problem into problem, and you report the resulting own. The problem is experienced by the problem in the time liney are principal.—Lee Sect. You feel them after calcular [5–10]. Sect. the set them after calcular [5–10]. The line is the problem in the problem is the problem in the problem in the problem is the problem in the problem in the problem in the problem is the problem in the problem in the problem in the problem is the problem in the

This is a question I council answer.

4002 Mr. Generatin.—You do not suggest that that
selfs should be put down the sewer—No., sho sow is

4803. Mr. Wilson—After funding her militing on
803. Mr. Wilson—After funding her militing on
804. Mr. CLETHELL.—You mid you knowled some

60.5—Yes.
6934. Mr. CANTRIEL, "You mad you brought some one, and to test?". Yes.
6935. Hr you being in a ear and the roots, what beyones. "So goes took to the desire. I test them created the second of the second test and the desire must have then in the 4800. Me does not led it be known that you had tested the entirely fee."

A discussion of the known that you had been considered the external No. 897. There are five charb, you send, that are free charb, the first independent of the first independent you are giving us, e800. In this private information you are giving us, e800. In this private information you are giving us, e800. In this private life was a first private life. Where and Mr. Highes, but to Reliably the constraints of the constraints of

450s. Those people may on south to save convertibut 455 have been fested, said that the milk is pure 5—Yes. impor

4401. No CHARLES—Are you engaged in the mills of a Dublin, Mr. Grouts—Test.

4402. Robert in the distinct of Banelagh—I do.

4403. No you live in the distinct of Banelagh—I do.

I had the Joyce bear in the Opportunity of Dublin.

1040. Yan is surrected that Opportunity of Dublin.

4604. Yan is not proposed of Dublin.

4604. Yan is not proposed of milk.

MMN. What possessage de you find our markensbout Exper out. is the "Dries 22 by 10 per cana. Note Exper out." is the "Dries 22 by 10 per cana. It depends not whether the says are did or safe, such as the "Dries 22 by 10 per cana." but the "Dries 22 by 10 per cana. "Note per law to should those own, and they you find—"To." "In the "Dries 22 by 10 per cana." but the "Dries 22 by 10 per cana. The you find—"To." "In the "Dries 22 by 10 per cana. The law 22 by 10 per cana. The "Dries 22 by 10 per cana." but the law 22 by 10 per cana. The "Dries 22 by 10 per cana. The law 22 by 10 per cana. The "Dries 22 by 10 per cana. The "Dries 22 by 10 per cana. The law 22 by 10 per cana. The "Dries 22 by 10 per cana. The "Dries 22 by 10 per cana."

excloses, bethe several of the course garee at a rice, as the control of the course of the bound diffy and the world runs. The course of the bound diffy and the world runs. The course of the course

effect, to very source done being. It has experience and the control of the contr

what you man by thirt.—This hill is sold in the beam \$100.7, "Man. to will."—It is reported to be. \$100.7, "Man. to will."—It is reported to be. \$100.7, "I not that what you reten in that occulied \$100.7, to that what you reten in that occulied \$100.7, to the what, do you find that when the owns \$100.7, to the what, do you find that when the owns \$100.7, to the what, do you find that when the own \$100.7, to the what, do you find that when the own \$100.7, to the what, do you find that when the own \$100.7, the property of the property of the property of the \$100.7, the property of the property of the property of the \$100.7, there would not perhaps up to the property of the property o

to very questionship.

4880. You said that that does not come under your important—do you only import orients.—That is all.

### Mr. J. J. Course exemined.

4600, Do you kide an mile and rotal st?—Yes.
4637 Form shad date; yes got it is a rather—
1637 Form shad date; yes got it is a rather—
1637 Form the only one illustrations. Yes got it is a rather—
1637 Form shad date; yes got yes got considerate before the control of the cont

Mr. J. J. Carotte, -25th January, 1912.

6829. Certainly,-Having road the reasons why you see investigating the alleged scoreity of mile in some parts of Ireland, I various to suggest that most of the fruit hes and se based on ignorance as to how to man-age the farm and the stock. The first step that should It is a well known fact that farmers in the most remote ports of Iroland set entirely on a system of their own in stocking the farm, viz., they run the calves for two motives—dists for sale, if they get what they think is a fair price, and second for replacing the milit cows said irom the stock. The geest fould in that system is that they in much cause said the best and most subside of the calves of the contract of the contract of the conthe cattle and take chance to bow the vourger oper will form out, and that heeps going on for years watth nearly all the best of the cottle are sold, and they have nothing in their stock but inferior cattle, sometimes small and even deformed, and in a great many in-stances lame, and sometimes delicate, which is almost atomes have, and sometimes telecote, which is almost user freezones of theoremics and other disease. There is souther point which may be raised, and that up to some telecoted will not three on all lands and greate more results. Then the question arises—what are the most suitable for the different kinds of land, and on giving a little thought to that matter, instead on the contraction of the different kinds of land, and on giving a little thought to that matter, instead on the contract of t commences the cuil working of the sele of the new milets cown. The convengers in the vicinity of large cities often pay for a now miles now more than the corried whis and would be glad to get some if mile can searce. What happens? The farmers sell the best springers they have at the time in order to fetch the highest printy. But the loser in the end will the highest purry. But the loser in the end will only be the farmer. When milk is source, butter in scarce, and the farmers cannot produce, because they Concerning contamination and how very fimid and realism, and if they ere treased as time time hadly they never turn out good millione. I would like to bring forward on illustration that appeared in the newspapers a few months ago about a Jersey cov on the C. J. Hood form at Lowell, Mass. I have been in that place myself and I know it particularly well. and the paper states that the cow produced a nett profit of \$75 a year and produced 14,073 lbs. of milk, equalling 1,005 lbs. and 11 cm, of better. That is on

be fed and milted regularly, and much care should be exceeded in the grounting of cettle and the cleani-ness of the milter. Great care should also be exe-cused in the ventilation of duries and covalution, and each covir milt should be thoroughly stationed below. such cow mix arous te uncongany seemen ortan-being mixed with the bails, and about any drit suc-come in contact with the mile, such as a looking one parting its legs moto a pail, such malls should not suche any entermatences be mixed with the belt of milk. It would not go be waste if west for calve or pigs as soon as convenient after the occurrence. I have known one or convenient after the occurrence. I have known that to be done even in this neighbourhood, viz., dusty milk help mixed with the bulk. The best way to milk heing mixed with the built. The best way to get ever that difficulty is to subsolve into Parliances a new code of laws precenting the nells business in all its beranker, as the present veyteen is only a con-mixed law, and only heige the originit, and height to run the hearts, main. I have seen where proveyers of mile were fined for barring on their premises during earth. allbough such once did not before to them, belonged to the wholesale man who supplied them with I have often men dirty charas went to purposes of milk, and have often told the employe purelyces of milk, and have often that me begane to have their churns properly obscaned. I have reported same to Inspectors, and when a coulton care-front the Pool and Drugs Inspector the following due the churne were weareful channed. I have known the thurns were properly cleaned. I have known purveyors of milk to sell a mixture of water and milk, more especially in the evening, when no inspectors are more especially in the erroring, when no impectors we shading samples, accept no way, error consectors, we shading samples, accept no way, error consectors, we can be performed from the following samples of the same frequently done by suppliers than by refulfers. I am not in any acceptance of the sample of th one process and that we hierarchic competed to have one a fectors, and that such licence about the centered yearly, and than in cases where people are fixed for invail, adultrention, and drivy vassels, for some milk, and for state mixed radik odd as new milk, they could be same would not be sold in two months from of notice, a compulsory order should be served hem, and their premium should down for good them, and 4841. We have now come to the hour at which or generally adjourn, and we are not able to finish your examination?—There is a good deal more that I would

4840, the on, Mr. Cremin, plants; .-The cettle should We may be able to hour you at a later stear

The Commission then officered to the following morning.

#### FOURTEENTH DAY -FRIDAY, 26vg JANUARY, 1912. The Commissioners met at No. 5. Unper Cartle Yard, Doblin.

Propert .- P. J. O'NEILL Esc. (Chairman): LADY RVERARD: MISS MARGARET McNutt. Sir STEWART WOODHOUSE, M.D., GEDINGE A. MOORIFEAD, Esq., F.R.C.S.I.; ALEC. WILSON, Esq., DERMOD O'BRIEN, Esq.; and JOHN R. CAMPBELL, Esq., B.Sc.

S. W. STRANGE, Eur., Secretory.

The Conserves or Many constitued.

e Cramway .... You are told me that two below were dying because they reald n resident in the County of Kildner, Lady Mayor—Los.

4848. And you have taken a generous and kindly interest in the well-holding of the pourer population of your distinct.—Xes, it has interested me very much 4844. And the first was brought under your roles. that a difficulty arose with regard to the supply of milk-for the children of the popur change?—Year the name

not get ralls, and some of my own friends found if quite impossible to get milk, so naturally the poort people could not get it. 4866. That has foreibly directed your attention in 4845. Might I anguse by what moves you propose to meet it?—'t year ago I sent in milk from my own dury in a cert to the town of Nasa, but I could only send from about sax to twelve gallege a day, and that was nothing at all, having regard to the mountity which existed. It was not sufficient to supply the poor

people.
4947. It was not quite sufficient?-Not meanly, and shift. It was not quite outflaints!—Not mearly, and other finding this the poor people diff really was sailly. I get two fistends of my own to holy no, and we all some in mife. Leafy although Bounts and myself sent is in in the meaning, and Mr. Flood, a readent me the district, seed in his in the owning. We said the first week the sailered surpright gallion, and the first week we altered surpright gallion, and the lists week we sold one bresided and foregreen gallion, so you will see we have merensed considerably in the

4848. May I inpute if Mr. Flood is a gentlemon applying milli on purely commercial lates?—Yes, He 4848, I take it you have a contract with him to

supply a certain assumit.—I'es, ten gallous a day ing 1800. You have experienced no difficulty in getting 1800 where to send in milk at a reasonable price?—Not at all. I have had two or three requests that we should take the milk from difficult people. should like her mine from marrons pages.

480. It has demand for the milk continuous and
and sloudy?—Quide, excupt on occasional fair days it
is not so easy to sell the milk. They do not come
for it so much on those days, because there are no
for it so much on those days, because there are no

4892. There as a supply free on these particular days? Osca shilling per gallon now, and we pay 20th per

4864. And you have no difficulty in processing a supply at that proce?—None at all. 4866. Here you had setuductory reports from your name on the improvement made by the ellered con-

diffices of the Infests as a result of your correprise. We have only stated three meetles, but the sold that it had made a great change in farilles—that the people on a pit the milk, and that there is no across for its row us not getting it. And the people thomselves, I thank, we mean grateful, becomes we have had many opportunities of pulging of their.

4656. And you have not had say complaints as to these ratellity to buy malk for west of manay?—No, of course, for the very poor people we have books thinked, which are bought by the Vineant & Poul Secrety and the Womm's Nethous Health Association; they supply the very poor with these tackets when it

6867. Ormier-Tes, from a chambals point of view. 4868. What I wasted to know was whether you found smoothy to bey sufficient stronger the working clauses easy manifold by by sufficient stronger. And generally, There may be cause, but I do not know of them. We 4809. Would the people presering milk from your dept he collected field laboures, or what occupation do they follow?—They are labourer principally.

6000 Is say difficulty experienced in the rural distrayes record Nass in precenting milk by the peor people I think so, but I think it is due to want of exoperation. There is milk, but somehave the people cooperation. are not able to get it.

4661. It is not exactly though the complete absence of a supply of milk that they are unable to get at, but through the absence of people willing to add in small quantities 2... Yes. 6922. And it only needs a little organisation in order

to make a ampuly available?-You, picuty of people would sell, but they do not know where to send the malk, and they do not bother shoul delivering at several the

4668. Do you deliver the male from your depot?shap. 6864. Do people from coloids the town come in to your shap for mile?—Yes, but not from far out— people within half a mile or a mile of the town, not

briber out then that. 6965. And you have not experienced any loss by fulling very considerably below the quantity required to-suggest 7-No.

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4966. Is there a dairy imspector in your district?-Yes, and he where us constantly. efficiently carried out in your material?-Yes, it is very

good. My dairy has been inspected twice within the good. My dary now been imposed twice weem nor three months, and other daines have been imposted site, and warples of the milk see taken.

sto, and samples of the milk we taken.

698. And you there are received to believe that the
con-sitelyers in not carry out the regressions in the
con-sitelyers in not carry out the regressions in the
con-sitelyers in not proposed to the contract
as security of milk—the operation of the Order,
as security of milk—the operation of the Order,
as security of milk—the operation of the Order,
as security of milk to the
contract of the Order?—Tex, because is let of
contract of the Order?—Tex, because is let of
milk people with high cours can properly knowled have all bern arout eway, and rightly so.
4870. Because of the constraint in which they kept the animals?—You

4871. And their father to comply with the regula-tions leid flows in the Orders-Tes. 6972. Even though it has led to a definionary in the 6972. Even though it can led to a unumney or septly to your district, it is a wise administration to bring their tends to an cod?—Certainly.

4973. Year depot in Ness is run, I proume, under the Woman's National Hestith Amountaining?—Yes. 4674. And, of county, you have the co-operation of the leading residents of the district, and they are

4875. Here the p payments been regularly made for 50%. Here we payments been regulary mone for the miffer-Yes, shrays over the counts. 50%, You give no ordiffs—We give no credit at all. 50%, Lady Evenue.—Do you consider that the mappy of twopense per gallon pay you to min the

depoit—It does,

4878. I take it that you have a meanager?—We have
a young warmen in charge who lives at the depoit. I one rether fortunate, because this depot is in a little bonce that has got three rooms upstairs and three below, and we let some of the rooms, which pay the tent of the house. There as a very good water supply

6979. Do you keep the milk for sale is one room?— The milk is kept in large whole chins yers, with much The sulfs is begt at large while china pers, with means over theon, in the shop, 4800. You find that the people seem in and pay cans willingly for the mulk over the constant—Yes, we have no difficulty about both. The only difficulty at the way can large. They secondaries being clean by the streng clean large. They secondaries being clean by the strength of the str

then cleaner. These as fortunately a pump subside the dome, and we get them to go there to clean three. 6801. The Curaissan-Tou active customess with dirty visuals to pay possiblent visits to the pump? mry venuel so pay posistical vases so the pump?— Kes, when the pays are durly we seed item there. 482. Ledy Evenant —The book of tickets you spoke of are for a print of milit?—Yes. 4850, For 142.8—The.

6884. The Charmean,-I consisted to sak you if you ones, the continues.—I confiden to sak you if you were conscious of the fact that there is a simpler enterprise curried out in an adjusting four?—There is at Carlow. We went to Carlow before we attacked our at Carlow.

to Carlow. We went to Carlow before we started out depot, and we are running if on applier lines. They are running the depot in Carlow for three or four years with great success. 4880. What is their output?-- I connot tell you that. 4886. De you begon to have if the price for the milk is the same as you shapen to have if the price for the milk is the same as you shapen 1-Mee, if is hover. But I think you must go by the price of the milk in the town. You except understil local twelture.

1909. 100 (securi Discouri Desa rentite.

4697. You take organization of the price at which the
riffs is sold in the lown?—I've, we have the usual rate
charged in the sown. We flust rated the people who
add milk if they would interess their reports for the
poor people more than a year ago, and they refused.

1000. The their contracts of the proper people of the poor people more than a year ago, and they refused. 6888. So that you were obliged to adopt another method - Yes.

(889). Dr. Moognean.—You get your supply by con-trast from some of the local suppliers?—Xee, 6800. Dal you make a contract with the local supplier for so much?-Yes. 4601. Is it your experience since you have started this depet, that people gut milk that heredeline got none of all?—I cause mance that question, I think. I am afred I do not know.

THE COUNTROL OF MANO, 26th January, 1912.

4892. The demand for milk has increased?—You.
4890. And there must be people who now gat it who
did not got it before?—That is no, I suppose. We also
sell comm and skinn milk at our darple. \$504. It it taken off by a separator?-No 4886. It is occurs in the cediminy way?—Yes. There

to a great sale for skim mile, no a green test life think USEN. 4806. And you are sure that the margin of two pence a gallen enables you be pay the expenses connected with the depth—1st does. 4807. Mr. Wilson,—You, I gather, do not pastourise the milk?—No.

ne mikiy—No.
4898, You get it as clean as possible?—Yes.
4899, Do you insist on certain conditions—have you
tended light it or made regulations in that way?—

There went be a certain amount of cream on the wilk. and we have any any difficulty to any passe, 2500. There is one point you may be this to enlighten us about in composition with the Wemmen's Mainteni Health Americation. Would you be of epinion that the Health Association. Would you be of epinion that the searcity of milk, particularly in a little country town of the type of Naza, had ready existed for quite a long the matter that has directed attention to the scarrity

the Defries and Milkshops Order came into force. to that time there was a sufficient supply, but the mile was not good.

4902. There was plenty of bad milk?—Yes, the milk poor people have teld us that our skim mile is believ than the new milk they buy in other places. 4933. Mr. O'Brins.—The village people is too handy? —I do not think the milk is watered, but the people do

not feed their cows properly.

4904. Mr. Wilson, Your depôt is a combir 4004. Mr. Wilson.—You deppt in a combination be-tween the producers of mills—the francest—There se-colly those of on in it allogother, myself, Lady Albarda Bourbe, and Mr. Flaced.

4006. If your scheme grows it would be on the lines of a combination of mills producers in a combinal depth?

4506. Van are not attemptine opposition are:

executive-that they should come together and send one mesecurer to the depôt for milk for three or four houses !- No, each melividual must come for the milk. 4956. Neas, I think I am right in stating, is a town heef exach area-there is no tiffage?-No.

990. And not much darry farming?—No. 4911. So that your askems rather points to a selu-tion of this scarolity in towns of the type of Nass?—

4912. Of course there are many towns of this type?-4995, Here you my experience in the matter of

4914. H does not appear to be present?-Not so fix as we know. and the collection of the latest and the latest and the latest and the latest and latest and latest and latest and latest and latest la

the town, and teme in critiages, too.

4505. Union octages?—Tex.

4007. Do the other labourers who are not in Union

cottages about you get a supply of malk from the far-norms—No. 4918. Do they got the grass of a cow?-No.

4919. There must be plenty of hards about the dis-

4920. How do they got their supply?-I exanct say. 6923. Do you know at all, or have you any figures to show, the quantity of talk per head for children bought by the families coming to your depot for milk; when people mit for a quart, do you know how many there are in that family?—No. They never ask for a 4803. You counce toy whether the children are get-ting an adequate supply of multi-I images they do not have exough. The people are very poor in Nace. 4923. My experience is that although a femily may examility of milk does not so very far?-It does not.

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4254. You do not know yet, I suppose, the numbers in the families—the Weenen's National Health Associa-tion would look that up?—Certenly, we can do that, 4224. And urgo on three that they might spend a little more money on malk?-Yes. 4925. So for you do not know the number in the families - No. I cannot say.

4927. Do you think that the food value of unit for growing abularen is appreciated !-- I think so.
4608. Not memby for infinite, but for growing old.

dron?—Yee, although they are having too much ten.

4929. Do shay out oatment permitted—Yee, but not very lengthy in Name.

4935. Be they buy skim mulk to go with it 5—You.

4661. You say you have a considerable sale for skim 4931. 3

4900. There me no eccentricis in your district and you have no expanded milit ?—No. 4930. You do not know whether there would be a prividice assents it?—I do not think there would. 4900 There are no est es in your district and

4984. In it an asseciation that is in charge of the deplet - There are only throo in the committee who see ming the dople. den would be to caterd the association among other milk uppyliers of the district?—I am afraid we have

menths. 4996. I was wondering whether you would have any regulations for your restaure to see and import the sources of supply?-No. 4007. At present the inspection is being done by the official damy respector?-You. efficial dany respector?—You.

9398. I was wonderfring whether you made out any
rules for your association, heeplag to yourselves power
for your manager to go and see the courses of supply?

—We would, I suppose, but, of course, there are esty

three coppliers at present.
4988. And you did not think it measure ?-- No, am cially no we and the other dunes are visited by the 4940. Sir Strewart Woosstoner,-With what object to the ekim milk shiefly bought?-Making the broad,

and also for the porridge.

4941. They use it instead of new milk with the po-ndge?—You. 6942. For the children?-Yes. esea, yee the children N-Yen.
4943. Are there other dustes in Nasa?—There are
4944. It there much nift left would at the end of
the day in your dary?—Not very much. Of some,

we set the milk for cream, and if there is ceram over-there is never any rulk over-we make it into bottor-It is a bit difficult to gauge the quantity of make re-4945. Do you know if preservatives are used in the

4845. Use you arrow provided to the expenses of the depth, I think you said in a memo, that I have not been a sound to the depth, I think you said in a memo. that I have not been a sound to the said that the said cen that it would cost you shout \$66 a year the dep64?—Yes, I have the accounts here. I us about 41 per week, and off that we take the rest

4947. That #1 includes the rent, and the coal sale wages, and the general uplears. The, and the roles and cost of repers. I coa let you have a full state. ment of accounts. 4949. Do you think that £1 per week would be the

asual expense attached to a depot of that sort !- Tet. 4949. Ludy Evznano -I suppose very much would depend on the rest were would have to pay?-Yea, we nay Se. 6d. a wook.

4950. You told Mr. Wilson that you recent of a cortain 4952. And so for as other conditions are concerned you think it is cofficient to satisfy the dainy inspector!

4932. Mr. Campuzzz.-In it intended that this depishall be displicated all over the country where it estable place under the Wenner's National Health Association - I county serv. 4953. You are not in a position to say to this Comreiselon that the Women's National Health Association intend to establish these dopôts all over the country and that we may count on this herry a factor in the future in the supply of mile?—No, I am not in a post

tion to state that.

THE COUNTRIES OF MAYO, 26th January, 1912. The Commons.—Think you very much, Lody Mayo, for your very interesting cridence, and for the mon-vessions you have incurred in coming before the Com-9354. This is movely an experiment so Nasa5—Yea. 9355. And whether it is to be extended under the Women's Nasponal Health Association has not yet been

#### Dr. Joan Lemmas examined

989. The Changanay.—You are for many years resident in the City of Duhlm, Dr. Lumsden?—Yes.

997. You are a physician to Monor's Housetal, and chief medical officer to Guizzen's Brawery's Hospital, chief medical officer to Guizzen's Brawery's—Yea-4958. And you have considerable experience of 998. And you have considerable experience of the minor in which the infant population is led?—I have, 999. Do you believe that a sufficient supply of mile is available for the feeding of infants?—My experience is in rather a restricted area not altogether allied with

is an rather a restricted sees set stopestice alload with others as the olig. It is confined manufy to the em-ployees and their families as Guinness's Revery, where the people we better point than the average between and better looked after. I also have an ad-vorance in dealing with my policiests owing to the Benafity of the Company. Benzility of the Company,
4960. There is no mercurences arising with regar 5800. There is no incurrences arming were required to the difficulty of preventing milk, or as to the condition of the milk that is available for the food of the milk that is available. So if that I think there is a difficulty as pecuring a sound milk.

5 a difficulty as precuring a sound milk.

480. These is exceed the question that I would be

9994. This is exectly the question that I would be sled to have your opinion upon. Have you reseen to lose that the milk supply is not always to a pure our, ditum?—Undoubtedly. 9992. Has says effort bean made in the recent next to improve the condition in which the culk is supplied? -Yes, As one untugale I may mention the Stiege Boad Depôt, rus by the Women's National Health Association. I have some experience of it.

Bood Dopbi, run by the Woojon's National Health desposition. It have some reportions of its. 4603. The Commission would be very much obliged if you would give us your experience—The 1968, see the setolic of a recommendation of sums, the Company gave my permission to supply of their expense milk bemeaned and past-quised to my body patients, and the process of the commission of the company to the disc. 1992. Just had bade before them one hundred stage, 1992. Just had bade to the commission of the com-One of the rules was that mill was never to be given unless I was estimated that the mether herself could not nume the union. The results have been caternally miss to energy of the Herbitections contained us ft, and integr the lady to me once every much far resigning and amposition, and I have a book in which all the pos-sition of the state of the state of the state of the new lady of the state of the state of the state of the new lady of the state of the state of the state of the deep contained to the state of the state 4964. You have supplied milk through the henoro-lense of the company to these children?—Yes. 4966. And have you obtained that sails from the Sitme Read Depôt 5—Yes. The State Road Depôt has,

Since Read Dayolf—Tes. The sense those nepper mer, from the recibed mank point of view, a great many structures as it proposes the rule masters just like a prescription, and I am a grant believer in the depth. For the last fifteen are iversty years in France, certain devicts have been in emissions, the "Gauttes ofts have been in existence, the "Goutt Last," and the "Councitations de Nouvrigons de East." and the "Granatolpes de Nourricons," Pive or ett prese sap them were a hundered of these. Pives or ett prese sap them were a hundered of these. Pivesses, said a great meray have been cristitated ettree then. The milk is humanated and sternihoud at 100° Centification for three-pieters of an hour in the "Gratites do Lett." I have also experience of the depths in England, mainting Balterian. Lambech, and

4955. How are they subsidized 5—Liverpool is under municipal conicol—and under the dures supervisors of the medical effect of health.

4987. It is submidied by the Corporation?-Yes 4957. It is submidisca by the Corporation Notice. 4958. And does the same apply to Betterion and Lambeth; they are under summerpal control?—Yes. Lambers; they are under municipal control?—Les.
4969. And substitued by local funds?—I believe to.
4970. Have you say figures to show the Communication
the amount of subsedy given?—I have not time to look is up, but perhaps you will get the information in Dy. McCleary's book. He to the medical officer at Batter-son. I can easily get the figure for Lambeth, as I have there is here, if yop with. 4971. We would be obliged if you did? They give fully strethed milk or pasteurned milk in the depths. 4972. Do you happen to know whether the denote in France are under municipal control?-The maunity are conducted by philanthroppe secretics assested by substitute from the municipalities, but in segme terms

4973. Or whother they are locally supported "-They

4074. You do not know whether there is a subsity out of the public funds?—I owned say, they are con-sected with hospitule. Perfectioned each sterilised mile are given at the depths. I am a stemp advantal or 4975. We would be glad to hear your views?-I am not a McCottle I am a choical observer, but I have not a McCottle I am a choical observer, but I have never seen say harm acise from pastumined milk. The milk at the Betrn Brasi Depot in pasternised and bumenized, and I understand from a long conversa-

bemoused, sed I understand from a long conversa-tion with Dr. Hope, the mutual others of Liverpool, that he has never seen any have satisfing from fully sternised milk amanget the belies under observation in Lavarpool. It is maintained that if you bring mile to a certain temperature this interfeces with the onogmes or formeshs, hot as a dibatal observer I have never use, and power to-stillage from the me of partner use, and power to-stillage from the me of partner use, and the me of partner of the me o

990 and 600 is is stated there is abundant evidence to prove that milk heated to 60 degrees Contigends (140° Palus) for sworty minutes is "live" milk, rish in prove that milk heathd is 60 degrees Certificated (MOP Rahr) for twentry mutures is "Ive" milk, roth in symagona; that it does not deteriorite in quality and first most of the pathegens organisms are Milds... 4608. There are certain filterine amongst stellers creating from the Good on which they are recognity or creating from the Good on which they are recognity or more of the June 2007-21-21, but I have never seen a more of the June artisty from bothed or proteomised

4979. Have you over som a case of sichets or sourry in a child fed on milk supplied under your prescrip-tion?—No. I have given it to children who had sourry tion I—No. I have green it to estimate who had sowery or riskets and they have improved on it. I should like to marriers that I am in the labit of coloring counge juice as an addition to be given two or three weekly to bables getting pasteurised milk suredy the anti-scorbatta properties which it is believed may be injured by the heating; and Dr. Hope told me-that in Liverpool they give scenged pointo passe at the 4980. These are particularly troublesome maladies in

children-rickets and secrety?-Yes 4981. Your belief is that they are very largely con-sequent on the manner in which the shild in brought up?—Yes, from want of good food, especially of fate. up?-Yes, from want or good and and went of smilight and fresh siz.

and went of annihals and treeb are.

1882. And where children are neorished on good
milk the despec of these maladice series; at considermilk the despec of these maladice series; at considermilk the despec of the series of

988. You only recommend pastergission as a safe-guard for which is might be difficult otherwise to pre-vide a substitute?—Qrile no. 4984. You, of course, are families with the Widel (ret S-You. Dr. Lawsonv .- 20th January, 1912.

2245. Do you think that very considerable dauger ernes to the population of a rity paperally by typhoid 4966. Would you be in favour of having all these eople empaged in the occupation of male handling abjected to the Widal test?—The test is not a diffi-

to the Widat test?—The test is not a succeed in the little only a prick. It is a question that I has refer to some pursue like Preference would sather refer to some person

4987. We would be glad to have your own opinion? I would certainly say you, as for as I know saything 4088. It has been stated to the Commission that the

4909. And you think it is a reasonable pressution to which, in the interest of the public health, those co-gazed in the inde should have no objection to subject

4000. Have you had experience of the conditions Im outside your own special connection with Messes. Guanness's employees?—My experience outside Guin-

4991. Do you think that many of the infantile salidies are introduced rate the system through unelesa or impure milk?—Yes, I believe they are

4992. And that it is a rememble domaid to make that sway pecantiles should be taken to score a slaunce and purer supply?—Most certainly. 4008. And as this might lead to an ingreased cost in the production of milk, the public would have no right

4994. Have you had experience in the use of akim milet—Not much. But there is no death should that stem mile is valuable food for older oldifiem and oldifiem and oldifiem that stem mile is valuable food for older oldifiem and oldified figure with other food, and on that porms. I might mention that I have seen figures have showing the food value of skim milk as an economic distary:—Ten causes of breed and one pited oldifiem of the control of milk, at a cost of twopener, possess 935 emories of food

value, whereas oup, 8 ops.; heel, 2 ops.; petators, value, Whitrest—Soup, S cos.; heet, S cos.; petatora, S cos.; turnips, 2 cos.; bread, 4 cos.; butter, ½ cos.; coffice and milk, 1 cs.; sugar, ½ cs.; which would cost about Sd., have a food value of 940 calories. 4795. At foor times the expense?-Yes.

6996. Do you happen to know, Dr. Lumaden, that skim milk is used for the grown children amongst those under your care—I am not speaking of bohies?—I think it is to an increasing extent. I have been to encourage its use more amongst adults and

older ehfleren. 4907. Do you think that those in charge of shildren resires actually what the food-value of milk is?—I do not think they do. It is a most valuable and most

4000. Is condensed mult used in your experience?-

4660. Have you any view as to its dielectic value?-I think some of them are very good, and, as a clinical cheavalien one finds a behy occasionally thrive better on condensed milk than on ordinary mile mixtores.
For that is unusual. I have been users lately a third for conditions was take on organity have been using lately a thing called shulardin; we have been hearing a good deal shout it in medical circles. It is milk alternot, which is most wital to the infant's growth, and which is found in the raffic of the matter, but not in this of the cov At the Depth they add it when specially ordered or my presemptions. Albulactin is added to the raffic my presemptions. Assumetia w and and I believe very debeste children improved on the milk to which is added albulattio. 5000. Does it require to be prepared under medical supervision?-No, it is abled to the milk in recscribed quantities.

5001. Mr. Cantragge, Is it soluble allumen? Yes. 5002. The CHARMAN.—Is it expensive?—Yes, that is the warst of it.

5563. Mr. Campazzz.--What is it prepared from?-1004. Lady Evenant.—Have you had any experience of separated milk?—Very little.

1005. Have you had any experience of dried milks -I have very small experience of it.

5006. Dr., Mocennas,...Is it you unvariable practice to said crange juice to the milk prepared at the Sthris-road Denest....The mothers are advaned to give it. 5007. Here any of these hundred and twenty children without that addition?-I think in a number of cases they did not get the counge pure

5008 You never noticed any case of nickets or 5009. And of the five deaths, were say of them due

to tubes-cology?--Chrically there was no definite Two cases of unfacille strophy, one of manevidence. 5010. I take it that your idea would be to give

the children the milk as it comes from the cow, as the most ideal thing, without my alteration?—Yes. SOIL That is the best form and the most disserted able for the human being? - Yes, properly diluted, of

counts.

3012. I take it that you would suggest a system of control of the milk?—Yea. 5014. In those food values that you have given as-

a mose in than the other.

2015. You would get more out of a mon who got the
more expressive died?—Theoretically you should not.

2016. The human system wants a little filling up?—

2017. I think it is a very volveble comparison, but you could not keep a man working on that without a little change?—No. I only suggest this as an occu-

5018. Lady Evenaus,-Would you not think that salmest mixed with the milk would be much better?—

5019. Mass McNenz.—But you are not offering that is a moul for a man?—No.

5020. The Chromway.....For one most a day it would 5021, Mr. Winson,-I would like to have opused as to the practicability of extending depots of the Stricoresi type on a large scale to cylins. Last

3022. And all such metitotions have been worked at s loss?—I behave so. position?-They have not been 5024. Consequently, when we are dealing with the

politic milk supply as a whole, I take it we will have to leave out some of the expensive recommendations of the Sairie-road type?—I suppose so. But I cannot see o'hy it should not be made to pay on a large soule 5025. The price which could be obtained for milk on a barpy scale in the cities would not warrant the requirements of depots like the Stirio-read

5026. And consequently the Sitric-road Depot be comes a dairy for the invalid or the shift?—Yes. 5007. And is a different problem from the public

milk supply?-Yes. 5028. Are you familiar with the knowledge which is our available in Dezmark on that subject?—I have

5029. The experience there is that when posteurita tion reaches a very large commercial acule carelesaness crosps in, and that things are worse than they were f-

very much about that subject. \$600. Milk is liable to policition at various stages from the militing until is is used?—Yes.

from an estimate was made a couple of years ago regarding the various stages at which milk becomes polisted, from the farmer's bount to the consumer's, and I suppose it would not surprise you that over 60 per cent. of the organisms found in the milk were due to contamination after the milk had left the farm?-I

5002. With regard to the circular that you send out to lite women, I see that you make suggestions with regard to the behind bettle, and so or?—Yas. 2003. It has been suggested that it is desirable to sake the long tube illegals—Certadaly. As a result of education even the very poor are beginning to

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recognize that it is wrong. When I go second, the waters hide the toke from one. We have to waite then corefully. I think the weren are beginning to recognize new that the long toke is quite wrong. 2004. The Crumaras—I like it it was never sateded when the Skinje road Depot was started that it should be not no connected himself—I suppose not

he not to commercial hard—I suppose not.

266. It was needy as selfat by pidnethropovorbus to deat with a receipt as effect by pidnethropovorbus to deat with a religion of the receipt and
milk apply is an irisal biling receiver layer. It shake hist a
milk apply is an irisal biling receiver layer, but strong
the bestler class there is also a temporal bil to figurement
the bestler class there is also a temporal bil to figurement
that with a religion of the contractabilities in their
scan also is very great, and the assentior of disease form
milk; debautish rants be common.

The contract is religiously to the wife at the profits in definity that with at the spition-and depth.

a gas need that in the bottom or to entirity or proving pure milk to the poor, from what some it should be borned—New. \$688, Mr. O'Britte.—Some of those children when you are locking after me Mosars, Grantesa's employees? —All of them tree.

992). Yet are trophysed by Gunzous Ve-Ves, 5946. The recipiers are providy well of these-Ves, visitively.

3641, De they object to pay the extra price for the salls at the Structural Departs—it as very little desertion at diames. They pay disappears on good polying foregrone a quart, and you can got the Stiene-read sulfit at should be same cost.

2042. Mr. Winson, Do the families, whose children basedfield by the Sinto-road Dapoi suith, when the med for the milk as medicials has contact, continue to buy good milk?—They are advised to do so, and I believe they do.

they do.
Miss McNunx.—Quite a member of people have detected.
Mis Wasov.—Volunterity?

504.5. 32. Window — vectorsemy.
Miles MONINGAL—Vex. Quite a number of them continues to boy the valid. It is orby in the automate with the strength of the property of the property

with the Orthopsuchs Hospital, That is a first mill. Dress are springal scattle, which are bested. The milk is refrigerated, and it keeps weederfully well. It is were assurably shofted, and it is sent in bottless. Obt. What is the prices?—Threepence hallpears per count is the alternate price. Threepence hallpears per source is the alternate period of the prices. It is explicit in bettles. Dol. I suppose you are familiar with the management. Dol. I suppose you are familiar with the management.

20th. I suppose you are familize with the measurement of this farm on whoch the milk as raised, and have whether or not it can be mined consucretally at that proof—It is done in a purely commorrial way, and I take it they make a profit or they would not continue th.

5917. They do not supply the milk in a spirit of plelanthopy?—No, as a purely connected beamers. 3948. For our got a supply in a very sekinfactory condition all the year round?—Yes. 5009. Mass McSentin.—Is it delivered to each house? —No, to any Depressity.

5029. Mass McNerri,—To it delivered to each house?
—No, to any Despensity.

5030. Mt. Winner.—Here you may knowledge 46 to how many cross are on that furne?—Thirty or forty, I think. I am not sere.

5031. De. Hemman.—In the unite supplied in pint buttles.—The

bottles?—Yes.

2002, The CRARGEAN ... To the value of .0000 or £000
a year?—Yes.

2003, Mr. O'Berry.—You say that you supply radii
to other coupleyees of Guinness's heades infentav?—Yes.

2004. For what purpose?—As part of medical heatment.

2005. I think it is only among a certain group of the employees at Gusanese's that there has been relices a high marrishity from subseculates?—To is not higher than obtain obstates. 2006. I understand that these had been a great deal of beheenhold there, and that presentions were taken to essilicate the discuss not prevent its spendit. Fee, one-final of our complayers died from tuberculosis. That was even the or faceless yours ago, and the marishity has gone down to one-fourth states than.

20%. Is not that very high?—It is.
20%. These one hundred and twenty babies that over very scalely children, of which has or five died, were they children of patients who had tabercalous?— For came from distinctly tabercalous?—

Two came from distinctly tobercolors stock—the others were keelthy.

3020. The employees themselves, me they kept leaked?—We have been carrying out assumeram treatment, and the Company has been exceedingly good about giving critica allow-acces and belong in every way. We have been taking

saces and belging in every way. We have been taking a great deal of trouble to evaluate the disease. 5000. Generally speaking, you would say that most of the ethician are the oxiders of parcents who had tubecoulosis?—No, only a small proportion.

2001. And amongst the employees generally of Guinness's, do you find that they use purning?—Tes, to an necessing critect.
2002. Ani do you salvounte separated milk as an adjunct?—Tes.

saljunet9—Yes.

5083. And they can get it comparatively obeap2— Yes.

3054: Have you get say views as to the value of orpasated milk that has been posturised?—I have no experience of sensested milk.

on expensions of separated milk.

5085. Became one world my that the use of catancel portrage and separated milk would be a thing to be silvented, on account of bring to cheep said such a good food for adults?—Yes.

2008. You have not gone lefo the question as to whether partrustation rejures the expansion milk?— No. 2007. Most of the separated milk worth he from the transmay districts, and during the journey to the enty it might get outstanments, and probably it would be advantable to sterline at "Probably it would.

arrisable to stortine it — Probably it would,

2008, SE SERWARP Woodwings—Too consider

softer's milk is the performine selfs for intents—Yes,

2000, Whis percentage of mothers, speaking general

soften, Whis percentage of mothers, speaking general

soften, Whis percentage of mothers when yearing percentages,

soften, which percentages of mothers will be precedured.

SOFTO, Mr. O'Britze—And 50 is considerable time,

soften, which is the probable of the proba

6010. 2017. O mand-come 201 a Collection of the Collection of the

5074. See Senvary Westerone.—Do you think, generally, that over three-fractis of the mothers is Guarness's marse their shukkrun.—Peobobly 75 per cent.

6075. It take it that you advente partenessed milk coung to the difficulty in getting pure new milks— Yea, and another advantage of the depot is that the milk is bureautied

y 50%. What is the temperature Fabrenheit that they use?—I think it is 130 degrees.

50%. Here you need discusses in children which you believe to have been assed by impure milk?—Yes, I have.

50% I mean the pockshriky in your own mind?—

5979. The summer distribute that one sees so much of is a milk informan.—In a good majority of cases it is due to milk infrastron.

(6) is due to multi unfeation.
5000. Are glandrally wellings in some cases due to mill; infeation?—Yes.
5001. Who MCRILL—This statement was read-united definitely by one of the former winerses, that pasternment milk had an aparties offeel on children, that if preduced inclores?—My engerience us, and the appreciate of the Privatal Royal I mentioned, the

\$665. Have you say especience of rackets where a child was fid by the mother?-I have.

X 2

Dr. Laussers .- 26th January, 1912.

5088, Dr. Mooresso,-What was the condition of the health of the metter at the time?-Bad; as a 5084. Have you seem it produced in ebildren of healthy mothers?—I council with security say, gyner-

ally the mother is in hed health. 5085. Mass McNaux.-Top alleded in your summary evidence to the difficulty of obtaining good sound

5066. Do you think that the working cleases look very good. In many cases the mothers told mother forms a great difficulty in cetting and with the they found a great difficulty in getting good mift. 5087. I think you made some

incidence of summer distribus?—Bobles that are norsed by their methers do not get if to the same extent. In the children getting personned mill the literature was amalier than in the case of children getting ordinary milk.

3008. And the intuitive of the enses?—Was less in the ense of the children fed on pasteurand milk. We have not lost a single beby from summer diarrhors.

amongst those one bundred and twenty belies that were fed on posterrised milk. In conclusion, I may mention with regard to the depat, that I would be to bear testimeny from the educational point of view to the emount of good done in that large and increasto the emeans or good some on that sorpy som moreous ing naighbourhood. The managerouses have been ver-land in gauge to see the people, and advaning the mothers with repost to many mattern. Their work, has made theiff felt in the neighbourhood and has been

Sitracured depot, there were people able to

5089. The Chargeas. -- Do you find, Dr. Lennelou that the mothers are roody to confoun with the advecthat the melbers are ready to concean was me server our greet there of adding compy inche to the presentation milk?—They seem to be very annous to do what they ore told. They always promuse that they will give it, has I think a small memority of the children over get id perularly.

5090. Ommes juice would be an inexpensive addition?

# Dr Otro Borroccure comincol.

5101. It was started on commercial lines?--Ob, yes, certainly 6162. Insh heed cows?—Yes: and now we have a

8002. Are you a medical practitioner in Bire?-No. 5000. But you are familiar with the scheme that has been introduced onto that district by Lord Roses for the supply of milk to the town?—Yes. In fact, I outhle is gotting improved. Some one or two English ows have been hought. We have no Jersey nows in the bend, as the Jersey calves are not of great value, \$198. Do you loop milk recomin?—Yes. The quantity

of milk is taken down every work, and cash con's menting's and evening's milk. It is ell totted n weekly. I get the sheets and I sheitest the sverages. weekly. I get the sheets and I have the original book here 3394. We should be much interested in the figures if you gave them to ma?—Lest year the figures did not if you gave them to car—seet year one ngures we no go quite so high as the year before. \$806. We can easily understand the reason for that, owing to the dry summer. We would be giad if you owing to life my summer. We would be gain it you give as figurees, say, for three years, because we recognise that had year was at exceptional year?—In 1969 we had only a small number of cown. In 1999 we had the whole cowhel full. Cow No. 20 gave that year 91.6.2 gillons. The number of militing weaks was farty-one.

gallons. The number of mining weens was hely-our, consequently the average number of gallons per week was 22.22. Here is another cow, No. 8. Blss gave was 20.22. Here is another cow, No. 8. hise pays 922.88 gallons for ierty-even militing weeks; so that the weakly average was not quide to high—109 gallons. Here is a third cow, No. 7, that produced 906 gallons for forty-two malking works, making an average of 22 gul 5106, Mr. O'Benny,-What is the average of herd? There were 66 cows with over twenty milking

birdy.—There were 40 cover with over tweely milling weeks each; its average rounker of milling weeks was forty-con and a half; its average of alloes was 61.67, so that the severage counker of alloles are over low that the severage counker of alloles are of tweets and there was a difficulty in belief are per very low of there was a difficulty in belief are per very de-formation of the severage of the severage of the severage of 500. Our you fell in what the individual car produced has you-flow. Or 7% or 10 million produced 100 million with the severage of the severage of the severage of 500 million was a severage of the severage of the severage of 500 million was a severage of the severage of the severage of the produced has you for 500 million was a severage of the severage of 500 million was a severage of the severag

atile, That can milled for forty-two weeks 3—Tor, in 1949, and letry-one weeks last year, 3169, Mr. Cuswenat.—When does your yeek height — On the last of learnery.

1959, Mr. Cuswenat.—When does your yeek height — No. 89—18, 1950, he was proposed to the season of the

No. 30 in 18115—700.13. Other cowe increased from 1910 to 1911. The different freel may have affected there, or it may be inspaced that a greater number of militing words. When the company of the con-sistence of the contract of the contract of the first the Camerana. Which we tell us how the costs are feed?—I am not enough of a farmer to give you that information. I cannot exactly tell up to the contract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the con-tract of the contract of the contract of the contract of the con-tract of the contract o cours her may—I am use enough or a numer so go-you that information. I cannot exactly tell you how they were fed. Leef Rosee has consisted a number of experiments as to the feeling of coses. He feels

1091. The Cuspeaux .- I take it, Dr. Borddicker, you are remired in Birr, or in the neighbourhood? In the town of Birr.

3094. You have been organizing it?-Well, I have been seassed in deing so 5005. Would you be good enough to give the Com-mission the bistory of that enterprise, how long it is in more than a surface of the constraints of the const has noise when mile. After the death of Local seeses this enterprise was started to supply the town of Birr with milk. The beginning was small. A new com-house was built, secceding to the directions contained ig a iterate of the Department of Arrivalture, to beld ii. a leaflet of the Department of Agriculture, to beind fifty cores, sand then the milk supply began. We found that there was no difficulty in finding local customers. The difficulty was by cest through the lown, and there was also hard delivery, and there were no reliveny was also hard delivery, and there were no reliveny was also hard delivery, and there were no reliveny that the local part of any least incorrect. The milk is all said.

leadly. To have no more than the cortex to which the trade has raced, as idea of the extent to which the trade has raced, as in given you the figures for 1911, which I have just display Defined in the year the produces consisted of \$2.1 miles of miles of miles of miles of the couply, 29,000 gallons, or an avenue of 540 gallons a week, were odd leadily. 2006. Is that exclusively in the town?—Yes, solely in the town; the mrik as put into hope nells-ears, and the people come to the cert for it as it passes. through the street, and get their supply and pay cash

through the series, and government of the for \$k\$.

2007. Do they pay onth in every instance?—Tex.

There are a certain number of contourers resident in the town who get the milk delivered by messengers, and they pay morably, but there is no longer eredii

over given.
5008. And those, of overse, weakl be the better charge people?—Yes. Here is rather a residential town, and these would be mustably orateomer.

3090. Are yet farmfler with the conditions that ceited in Barr provious to the establishment of the milk depot?—Tet, I am living there over thirty-one

5300. Would you kindly give the Commission the bustory of the state of things previous to the establish-ment of this enterprise, and the course that have led

the town, but milk was not plentiful in it. Lord Bosse can'ted the dairy owing to his interest in dairy forming. That was what made him start this enterprise.

Dr. Otto Boxpotters .- 20th January, 1918.

them on votches, slows and peer. This year thay see to get pear and hears, and she lie d'hiver. It is riches to get pass and means, and and on a sect.

5133. Mr. Cassenni...—Do you find it affects the
flavour of the milk?—Not if politonedly given.

514. Mr. O'Banni...—It is created?—You.

515. Lady Franzian.—Let d'irror is what is oubled.

flassood in this country?—You. It is a special variety geom for seed, not for five.

5116. Dr. Mocarman.—Is it cooked?—It is steeped;
but I compt give you sufficient information about the bit I compot give you summin interessed above see actual fooding, because we have not quite settled down to e fixed method yet. 5117. The Channan,—It is quite obvious that the cover are for on capanarie food?—They are fiel care-

cove are fair on expensive load?—They are fix one-relly and species with the property of the milk-render well from the milk-render well from the use of the low figures?— For 1911, one No. 16 per in forty-drive milk-weeks only 459 gallons, at 59 gallons per well. Here weeks only 459 gallons, at 59 gallons per well. Here well per 1918, possible per well on an average, 519°, Mr. O'Burss.—I do not think you telds us what the swenning well was for 1911.—There were forely-zero. cows, with , with over twenty reliking weeks, and average number of militian weeks was the average number of milking weeks was \$9.08. The average number of gallons was 618.34, out the average number of gallons per week 16.66. The average number of gallons per week was higher, but the total was loss. The number of milking weeks

in the many money the same quality to every single unit, and exactly the same quality to every single purchaser. These are the two leading principles, and in order to bring about number one, selling the heat quality of malk, the coors were all tested, and are still tested, for tuberculasis. Any cown that react are tested, for telegraphics. Any core all tested, and are again tested, for telegraphics. Any core that reach are weeded out and replaced by other cover, which reconsisted out and replaced by other cover, which reconsisted the cover and bettern there would be con-Necessing the first core and briters tours even colored. With core and briters tours even to the state of the colored armania. Since the colored armania of the

deay-for our own sows. We are of opinion that doesno us frequently introduced into a herd if this is not observed. The number of reasters has not been not observed. The number of fractions are me, seeing green. Five cores out of fifty resided, and two of them were English cores, which had been bought in 1939 as a trial. They have died same.

1932. They solvally filed from the discours—Actually deed from the times of these English deed; but I is how It is not a meand for these English. ores to be affected. O'Brigo.-These English cows

5-122. Mr. O'Brito.—There higgist own were bought for their milking quality and far hereding?— For their milking qualities and to breed from, so as to improve the milking strain. We have some others in 5128. From what nume do you get your cown? Do you buy them locally?—Largely locally; has we ave a great many of our own salves.

5124. You breed a number of the helders?—You 5125. By whom are the cows hought; are they bought by the stoward or by an expert). By the

5126. He has not more than an ordinary training?es, he is a very experienced man certainly.

5127. The Charman,—Han be get any experience of w keeping or decrying in other countries then thin?-I should say that he had got other experience. He is

a Scotteman.

5128. He has been so very successful I wished to
bring out his nationality?—He had been in Ireland
before he cause to Birr; he is so experienced man.
5129. And the outile eet all bought locality—the steward goes to the fairs and buys a por that he thinks will be a peninable delay one, and one that will confirm to the other conditions attached to the production of miles—Yes. I cannot give you much information on 5130. He is not restricted as to the price of the cattle purchased?-No.

offil. You have not teld us at what price you sell the rails. The price is 24d, a quant all the year round, 5132, Mr. Wilson.—In bottles?—No, delivered out of the chum 5103. Lady Evanuar.—And it is retailed about the \$17.—Lex. 5184. People have not to come to the dairy for 98?... No, it is earled sound the town. 5136. The CHARMEN.-You have no shop in the inted made digitised by the University of Southampton \$116. All the radk is delivered from the cart?-Xee. 5157. And some private customers are supplied by 5158. The farmward is almost on the continue of the

5139. What number of militers do you usually exclude from the keed? Have you a minemum standard, and any that go below that standard are put

student, and my that up below that standard are put and well with the control of the last three startings of the last three control of the last three controls of three controls of three controls of the last three controls of three controls of the last three cont

Then the mile is chilled imme milk are improved; and it has eacther advantage, the eream to not so much inclined to mereade the refrigerating popular amongst the customers as a rule. They think when the cream does not rise at once that the milk is poor. If the culk is obtiled it keeps up a good mixture.

51cl. Mr. Winson,—What temperature does it you down to?—It sets flown at present to a temperature of

shout 41 or 42 degrees, occasionally lower, 36 and 37, and in the summer to 44 or 45 degrees. We have an collimited supply of cold water.

5148. You to not see the mile?—No. The rolls is tested weight for inster fat. I do that personally, togginally I used the retipation and process, but I gave it up as I found it most inconvenient. I now use to up as I found it most inconvenient. It now use to up as I found it most inconvenient in the most inconvenient in the most inconvenient in the most inconvenient in the most in replaced by an affect retinary market in the most in replaced by an affect retinary market in the most in replaced by an affect retinary in the most into the convenient in the most into the most inconvenient into the most into Mr. O'Berns.-It is contribugal?-Yea. The

milk which goes to the town and that of seven cows it tosted every week, and as there are fifty or ginty 5164. Mr. Campung. - In this a test of the average of the milk when it is all put loogether?—Yes.

5145. So that not only do you test the composite sample, but also the easyles of the militakes cowe?—Yes.

520. Serva nows are justed even week. You. Seven nows are tested every when, 5160. Do you take the samples from the meening's

and eventug's milk?—I take, as a rule, only the momning's milk, because if that is up to the standard the eventug's milk is hound to be better, by two or the cristing's milk is bound to be footler, by two or three deceasis, 5347. When do you milk in the evenings?—At 3.56, 5347. When do you milk in the evenings?—At 3.56, 5148. Wh. O'Elszer,—What time do you begin milking as the meraling?—S o'Sook. 5349. Mr. Cherritz.—Cher you account for the fact \$149. Mr. Cherritz.—Cher you second for the fact that the occurrency late takes the standard for fact, the milk occurrency late takes the standard for the cherry of the cherry of the cherry of the work had been No. 30. When the standard for the work had one, No. 30. When the standard for the work had one, No. 30. When the standard for the

fair, three per cent.7—no. Here is not more in-very bad own, No. 40, where the periodly pure mills did fall below the legal standard of three per cent. Δ cow which is permuteably had in wended out. 5150, Mr. O'Erras.—Though she may be a good Still The Charman, Previous to the luncheon interest you were dealing with the records and tion

means that were employed at Birr Castle to keep up the supply of milk?—Yes. the expely of milk?—Yes, did Z. I take B you want to continue your evidence in regard to that?—Yes. If any cow has to be vecessful out on account of the interfact quality of the milk the is yielding she has to be replaced. This is done from Lord Rouse's form, which is some distance from the delay, and another new is post acts the dairy head.

defry, and another now is just into use daily nece. We have again to find out whether the milk is really good, because I do not test the milk of the face cover. Tou will find in this book that when the cover first earne force the farm into the dairy-shed the percentage view, increase not fed in the same way?...No. Here is one cow, No. 81, in whose case the better fat increased by one per costs, from 22 to 5.2.

3154 Mr. Carratta...Due, you think, to the feeding?...I think to.

brary Diotisation Unit

Dr. Opro Bozzosckie,-36th January, 1913.

dish. Yee have most yeared expusions with the investigations as to the effect of dening on the composition of milit—Tax. In the late of the distingtion of the composition of milit—Tax with it has been asserted that he freding does not entered by discentification of the complex of the distinct of the complex of the distinct of the composition of the comp

has look. Ace not their over and over agint. The cove, the look of the look of the look of the look of the latter fish, and gradulty it have now the call to orablate out of the best. No. 20 is a you the it is pore in the latter of the latter of the latter of the latter of vot the vell law to be included hour the dury-herd, its loss pere 800 gallons in 1921, but the average better in it that your was only 24. You have it is a popular pore ruft, and that a core that gries intic said gives the mills. I have not found that core that gives into any other control of the latter of the latter of the latter of the said. I have not found that core that gives intic said gives the said. I have not found that core that gives into said sectant that the latter of the latter of the latter of the said with the latter of the latter of the latter of the latter of the said. I have not found that continued.

tisk mill. I have not found that confirmed.

M57. Year observation and the records do not centers that—No. Dow No. 66, in 1910, give 32 gallenged by the confidence of the con

is will promided. At case occurs, no death, this the core year given, but I should not take it as a general rate.

5188. The CRAIMMAN—II could appear to be your experience that it is quite pountly for a core to yield milk below the legal standard, and in these case the term—The Advisors unless to can proceed that the sount term—The Advisors unless to can proceed that the sount to the contract of the contract of the contract of the loss not been suspend with. The Advisors makes this

percentile has a next liable so a convosition.

3.22. That is constitues a matter of great difficulty of prove. If a man had only that patiently over would be not find the utmost difficulty to proving that what he sold was what be got from that cow\"-Tex. be would find the greatest difficulty.

3.50. I think that his railing a late on the Ast, because

ato. Thus the greates mirrory.

4300. This labs is railer a blet on the Act, because it is a bandalip on the coviceper to have his chascked in the because the cow does not give milk up to the legisl standard through no fault of the covered—it hands to say bow that does no a verified. The standard

on more per cent. It townsh.

5161. Mr. CARTERIN.—It is a fair standard?—Yes.

5162. The CRIMERS.—It must be recognized that
cores may produce milk below that standard?—Ten.
I can power that myself by figures. I have given you

some instances. Any any appearance to show whether or 6383. Have you say expensence to show whether or not the quality of the milk of a new may not very from one onlying to succinct.—Not apprecially. It was a thinker, but only a little; if functions constantly a

one oathing to another 8—Not approximate. It was as times, but only a little; it functiones constantly a little, it functiones constantly a little but.

5384. You would not be hopeful by any method income to you that you could mayore the quality of a cow's milk to keep her to the days?—Not if the cow.

out's milk to koop her in the darry?—Not'if the couconstantly given poor milk.

5155. With regard to that particular cov you mentored that give the poor quality of milk, was also at fastly or a time beart?—I could not tell you that. I

counds realized.

"Office, Reverse was an exact by interesting to large Med. Reverse constitution of the food in the control of the food that produced fixed in the sampleton of the food that produced fixed realized from the first Larger is one one what is a case of the food of the food of the control of the food of the control of the food of the control of the food of the food of the control of the food of the food of the control of the food of t

where of the conversion promises that I. Bara and the control of t

of condensed milk has gone down very much. It is almost extinguished, 3.729. Which proves conclusively that the people of not consider condensed milk a proper substitute?—Yes, And that there must have been a considerable shoring in the milk supply.

in the mile through collections you have given to be collect each related by the relation of the collection of the third, and it would not be early for no collection of the third, and it would not be early for no collection of the collection of t

characts. I think the inspector ought to be on expect in delay matter, and vary frequently he is not anything of the sort. \$173. You would be in favour of the appearament of profundousl men as important?—You. If I magin make a suggestom it is thesell have offen thought that a surprise visit to the durines on the part of an expert from the Dispertment would be a most inframable

3374. Was them say bording mandread by the people impaged in this milk thrule leadily when Leri Boase malarized on this enterprise. —No, they were not bordin. —The contract, —No, they were not bordin. —The contracy, the fading was cot of greenal delight that good milk was inlought when the reach of all. 3370. —The the people showed their appreciation of \$257. ——All the people showed their appreciation of

5177. And the Deressed consumption shows what an advantage is much be to the braich of the distinct?— Undershelping, any lectures been delivering lectures in your district in conceeding with delaying?—In the

These is reflect a territory that the Department's becomes shall drive teleurs only in the country in the country in the country of the property of the proper

Dr. Otto Boznaczent, 28th January, 1932.

5183. I telo it that become our only be given in urban districts if the urban districts are contributory to the County agricultural scheme. In Birr on urban control—Lee.

3183. Yet carried have inban lectures unless the
suban outbority pays a rate to the County Council?—
Bin, of course, pays a considerable sate formeds the
technical school schoon. I have been for a consider

Birr.

3184. For the dairy between world only be goven in connection with the aggregational scheme?—Mer. but is de-termed to the second of the second of the second of the liter, and Birr sould be a good notine words for country people for dury lectures. It know that souls the relies of the Depastroat the uniter corrects would be embedded from dairy lectures; and I think at a c great mixtude. I think if would be a very good thing if such lectures were delivered in unlaw centres hee Bury. Seedee, a great many of the people firing cutoide the usbon boundary would find it convenient to oftend the fown. 3303. Year would propose a course of dairy instruction——No.

Instantonian'—No.

1916. Simply between'—Xen.

1917. The Chantons.—Declara disk can adopte

1917. The Chantons.—Declara disk can be about

1917. The Chantons.—Declara disk can be about

1917. The Chantons.—Declara disk can

1917. The Chantons.—Declara disk can

1917. The Chanton control of the control of the chanton

1917. The Chanton control of the chanton control

1918. Rolly SCHIMDO—Declara consider that your

1918. Rolly SCHIMDO—Declara consider that your

1918. Rolly SCHIMDO—Declara control

1918. Rolly SCHIMDO—Declara control

1918. Rolly SCHIMDO—Declara control

1918. Rolly SCHIMDO—Declara control

1919. The Chanton control

19

he whole-time servants, and not appointed by the local authority?—Yes.

J190, So that he would be perfectly independent?—
I think that recall be a distinct advantage.

3946, Dr. Mozarana,—Have you may less if Loed
Bosse's enterprise is a paying concern?—The financial

Bosse a enterprise is a paying consumment of the part of the matter does not centern me at all.

48%. But you would know in a general way whether it was paying or not?—I should say it is a self-it was proving enough. I should say it is a self-it was posting enough. The should say it is a self-it was posting enough. 5194. Have you may difficulty with regard to labour?

No.

309. You one get it shandardiy? Tyes.

5199. And good labour? Tyes.

5199. And good labour? Tyes.

5199. When Tyes, regular and reliable.

5199. You have no trecalle shout start Tyes.

5199. You said you had from four to five resolver to

a tuber-tube leaft-Tyes.

1500. What do you do with these resident?-They are next back to the farm, and in that way pass out

1880. You do not know what ultimately becomes of them 1—No.

5208. They are not decleryed at all?—No.

5209. They are put out of session so far as the dairy
is concurred?—Tes.

2314. And you do not know what becomes of them? -No. A couple of them died. 5305. I take it you have about four or five reasters

5006. The Charman, Do you use a miking mechine?—No, it is all hand-miking.

1007. You have not any trouble with the Sunday work?-No 5209. And your deliverses are made on Sundays so on week-days?—You.

5809. Dr. Meccanian,--How meny men would you have to manage the dairy herd! I should my four or five men and a boy, I think. \$210. They are well paid, I presume?—I cannot give you any information about that,

you any infirmation accurates.

SELL Mr. CHAPPELL—IT you marifice the residers and the cove that post down a limits below three per cent, and only design 30d, per quart for the milt, I would filtie that John would find it difficult to make the enterprise and post concern, because the replacing of those two clauses of azimah must be a bury denial.

—It is not very heavy. The disease was practically only shown by these English sows that were introduced, and we have had none since. dured, and we have his non-super, who had your GRIL is it a vectorizary support who had milk are cattle?—Tes. All the cover which give had milk are futtered and sold, and constitutes, if nut too had, they are used for freding outvos. In that way those cover ore utilized and course in sactol. 5213. You are trying to goods up the quality of your mffe?—Yes.

your milev-a.es.

6214. And you do not propose to tharge more than
23d. a quart for it after you have graded it up?—E do 2215. Milk is valuable mainly for its fat 5-Tes 2216. And if you own muse that from three to four 22 [6]. And it you can make that from some or one per corts, that is 25 per cent. increase, you do not propose to make any change in the price?—I do not think that it could be done in our distrot.

think that it could be done in one district.

3017. Both len milk is worth it if you florress the
precedings of in 57. Eas, but the general population

2018. Do you not think that is one great therebook
to durying, that the former who has a must percentage
in the processing in his milk—Yeana. "The hose

2019. Rename if you made bother you would get the

2019. Rename if you made bother you would get the

benefit of the difference—Yean, you would increase the

control of the difference Yean would get the

5320. And supposing there was a commery in your neighbourhood, it would be far more profitable to send you milk to the ortanery than self 40-Yes. you milk to the creamery than sell HF-Yes.

6221. Therefore, this practice of supplying call at a
universal price is not conductive to supplying the
country with better milk over when you do not get
the hearst. You have sever thought of supplying two the benefit. You have never thought of supplying two prains of milk—No, 1 contains that a very not agreem, 1502. It is a bad system in one same, but not is explored. From the edite's standpoint it is a very satisfactory one, no doubt; but I thank, for the sake of this regulation of the duty, it would be a very bad thing to sell two grades of milk much the same of thing to sell two grades of milk much the same of the color To sales presented in sample of the property of the sales of the same of the same of the same of the sales of the sales of the sales of the regulation of the duty is said to sales of the sal thing to sell two gender of milk.

Side, In other countries it is graded?—It is, but to posi it plainly, the people would have to be educated up to that. They would not understood it. 9224. What indusement is there for a former who is making his bring by datrying to improve the quality of his milk?—He gets more customers and he finis a

or the market for his milk, and, of course, it would not be sold at \$16. a quart if there was not a profit. of the same of the

3897. They will not get more than 5d, a gallon for their milk?—I do not think they will.

5598. You would have no definelty if you run short in buying milk?—No. We do not do that as a matter 5229. It has been suggested that in districts where 5220, it has been suggested thus in captricts where there are no persons, such as Lord Resse, to take this matter up, the Crism Council might do what Lord Rosse is doing?—Well, of course,

I can only give expression to my own personal opinion; but to take this whole milk business out of the hands of hat to the Tata whole still brances oft of the hinds of the third state, and do every with open compellation to third state, and do every with open compellation. It is a state of the train the state of the

5350. Suppose you cented producing milk upon your farm, her you still washed to supply Birr with milk, do you think it would be possible to get it from the surrounding farmers and open a depart—I do not

5231. Were you in this morning when we he evidence relating to the milk depot at Name?—No. eviatince retaining to the mank depot as Nasark—one, 2022. You are sware that in neveral insulf forms the Women's Nasiscent Health Association, have started those depots. I understant the milk is purchased from the farmess and brought into the depots and to the people. You would prefer that the property of the Urian Council taking a farm and working size—Yes. Dr. Ovyo Bernstours, 26th Jensery, 1912. 5255. Do you think from your experience that that

would be a satisfactory system—collecting the milk and selling it at a depot?—In places where you could not get private decries it would be the next best system. I surpose 6386. You do not see any great objection to it?—I do not care about mixing the salk from different farms it is very liable to be polluted and contempored, and is not as contaminated and contaminated, and to not as contamy as it ought to be. If the whole doby milk production is in the hands of one individual it is very much camer; in fact, it is only then possible

to have it of the best possible quality and in a capitary 5235. You mentioned that you had creeted a byre on the plant surplied by the Department !-- Yes.

on the plant suppose to an analysis of the plant suppose to the day of that that satisfactory?—Yes, on the whole, but I do not quite like that the cover shaul with fitting below to the cover of the byre, and yes the fitting that the same of the three same of thr have to step between to fill the manger. You would never find that in Germany. I am a Westphalian, and we would always have provided to feed the come from the bend; it is very convenient, 8237. But it is more expensive?--It is, no decit, a

little more expensive, but it is very convenient. 5238. In Ireland you must consider the question of expense?-Yes.

5239. Dr. Moonwan,-Would it not be much mor hosliky to have the passage at the top?-I think it would be preferable, and certainly more convenient, but I admit is would mean more floor space and more 5840. Mr. CAMPBELL.—As a matter of fact, the people who have practiced chirjing very extensively have absorbed that other system, and more veterinarians and modeal man have objected to cows standing bend to head?—In my country (Westphalin)

a broad passage would run up the sentre of the ray, house, with feeding-tenughs and racts on each ade. The cows would stard, consequently, with their heads towards the centre of the house, and a passage rough towards the owner of the notes, and a passage rough be provided behind the cover along the safe walls, with doors leading outside for elemning and littering. The lany in kept in the loft above, with a trap-door over the occurred passage, through which is as through to be fed into the recits.

584. The Courses,—Do you liberate your core in the day during winter5—Yea. 5242. Every day?—Yea. 5240. Departiess of weather conditions5—Unless is

6244. Mr. Caurenna.—Do you know what cubic space you have got in your layer?—No. 5245. Do you know whether the veterinary inspector looks into the question of cutic, space?—We were guided from the Department's designs, so if our cube Signs, The hord improfer has paid no attention to that point?—I comput my. I should havely my that a local dairy inspector would, but the reterinary surgeon who came privately to test our cover might have locked unto it. If did not strike me that then was not enough cubic space, as the place is lodly. The weathstian wants to be very good when you have fifty cons boused.

\$347. In this plan of the Department they orr, I think, in regard to the westlistics?...I am included to 5248. They want better ventilation for this country, where the climate is mild?—Yes, I think so. The Cuammax.—Thank you very much, Dr. Boeddicker, for the very explicit and interesting orderee you have given the Commission.

Mr. Joseph Boss, J.P., examined

5266. Do you find any difficulty with labour in the riving on of your trade in Dubling...Completed

difficulty. 8267. In it inefficient or is it unsettled?—Unsettled and unreliable and inefficient. You have to except constant supervision yourself, and often to do the work 5368. Without the expertison you would have you inde carried on in a very fitful fashion?—Yes, and if he way used not to have the supervision 2270. Do you think that the people witellowed this occupation are cleanly in their who have habits.

satisfact this next period are essently in most nagar, and lake every ears to keep the milk untented?—We have a bit of difficulty about that. That is one of the things that we complain most of, the unitely habit things that we compass most on, we usual said the way of weeking. 2870. With regard to the question of supervision, is that efficiently cazzied out in your judgments— 5271. Are you in Bathdown district?-You

5273. Are you in managers districts—105. 5272. And Mr. Marco is the chief officer?—Some probleman visits as there. I don't know his name. 5273. Have you had much treable from tuberculous cows?-No, we had only one cow that we knew war

5374. What become of her?-We sold her to the " knacker. 8275. Was oke so had so that?-Yes, and I had a

constantious objection to do anything close with her, did not think it would be fair to not her man the market as sound heef 5276. That is the only experience you have had in-your period of trading of toberculous asimals?—Tes,

5277. Has your trade in milk been increasing or demnishing .- I could increase our trade, but it does

5278. Your experience is that the demand for the milk is certainly not decreasing?-No, not by any

9279. What prices do you sharge?-3d. in summit

6280. You have no shop in Duklin at which you cell the malk?—No, it so delivered from the cart. 5281. Do you keep the same number of oows in the winter as in the summer?—Yes.

5249. Tax Chanaman,-You are a resident in the City 5250. Are you interested personally in the malk \$250. Are you producing or purseying milk?—We are doing both. I may say that we have a hotel and have our own farm. We have a farm as Boobuck and 5202. Do you sell malk retail, or do you only use it at your own hotel?—It is also cold to customers and

delivered to teem by ears.

62055. Now produce more milk than the needs of the
botel require?—Tee.

62054. Four form is at Rochuck?—Yes.

62054. Four form is at Rochuck?—Yes.

62054. What districts 50 you self in?—In the City,
beginning in Banclegh and right up to the North

G256. Have you been keng ongaged in that leade?— We are engaged in the trade for twelve years. I used to farm, I should have said, in the Co. Formenagh before I came to Dullin, and invol adely by farming. 2277. Have you is large farm at Boetook?—Only

twenty-two neres. 6288. How many cows do you keep on sid—They vary in number according to the state of their milking, sometimes seven or eight and constitute a deem. 5250. You deliver your milk in the ordinary 5530. You canver your mass in the centrary result fishion to private customers in the City of Dublin and supply your hotel as well 8—Yes.

5500. Where do you purchase your cove?—In the Dublin market.

6981. The resuce I put the question was because I was carrious to know whether you went to false as the North of Inchedic control.—I did buy come three after I came to Dublin when I wanted there or four cover to the the capean would be too great in the purphase of one animal; the railway cheeges would be beavy for one animal; the railway cheeges would be beavy for one animal bought in the North of Indust. 6262. You buy, I take it, a good quality of cross-bred sow in the Dublin market?—Yes,

5983. Do you keep any milk records?—No. We simply test the milk, but nothing further. 5264. You simply test it for quality 5-Yes. 6966. But not for the purpose of assurtaining the yold per our?—No, nothing more than for the butter

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Mr. Joseph Ross, J.r. 2015 January, 1922.

5082. Do you find that the demand varies from day to day? Are you ever tecubied by having a surplus of milk left on your hands?—Yee, and sumetimes we 1080. That is one of the disadvantages of the trude? 5884. Do you clean ?-No. We may the milk, and re do our own baking very largely, and the mith turns in hardy for that when we have now over 5286. For one who had not the variety of occupa-

that you have the surplus would be a serious loss?-Yes. We can utilize if. Yes. We can unuse st. 389t. Do you think that , the cows that you now got as the Dealth sparket are as good deep oows a those you were familiar with when you were residing in Frimanagh?—You. We see not obtaining now as we did then, and we have no opportunity of judging of their better-far quality.

6087. Do you think that the yield of the milk is as good?—I think it is. Cows way way much, you know, as the quality and quantity of their suffs, 5088, We have had alconduct evalence of that. Do 3000, we rare also assumed the supply once with you believe that it is consense to supply once with the best quality of food — Nos, and it has everything to do with the quality of the milk. You will get quite a difference believes the rows themselves to their a difference beforeou atte corre-producting qualifiles.

588, Do you use home positants for feeding your cores.—Ees, we grow our own note.

5006. Do you feed with note and bariey?—Berley

sized and Ethoys some.

2941. Do you were one onto—Yes, enabled onto.

2952. Do you which it is an occasion feel do onto.

2952. Do you think it is an occasion plentiful I would
be more largely than I do, because we do not essue
it. We amont years it. We are only growing thee or

5283. You give the come on your own lead at Boebank?—Yes, and make a hittle street. 5294. Are the cows ever inspected when on gress?have nover known them to be I here never knisses seem to be 6905. Do you think that the previous of the Danies' sad Millinkops' Order nes excelling on new-keepens?—I do not think that they are too emering.

5396. You have no reason to complain of them?-No, we have no reason to complain. No, we may no reason to complain.

(880). Val you do not think that the conditions imposed by the regulations increase approximity the expense in producing milks. The Order requires the proprietic hisself to be a good deal most carrful than he otherwise might be, but I don't want it costs much

5098. You think it is a question of touble rather than francial loss?—Yes, 2000. Do you ever have your cove subjected to the tybercokn test?-No, we never have it done. 5500. You have no expenence of 182-No. We sold a few cows lately, and they had to be subjected to the

5301. Were they sold subject to passing the test?-5302. For what purpose were they sold? Was it as 5000. Mr. Casersona, Oak of the country? No. at

Dektin. \$504. The CRAHERAN,—Did you get an enhanced price by reason of their passing the test?—No. I go no more then a dealer would pay for the same anomal

SOM. Are the visits of the improtor frequent to your place?—They are fairly frequent, every three receibs, perhaps oftener.

1906. Dad they ever direct your attention to any conditions that they thought massimhotory and ask you to make alternium?...No, except once, when they complished of the manufacture that this manufacture that the manufacture was the springium? that this manufacture was there, and the while was well, and we could not get the position in. We sold them we would not get the position in. We sold them we would necessary that the springing of the weather. It was, of 3307. Mr. Campana, How for in the manuschoup from the byre?—It is within filters yields.

5338. In it within the city?-No, it is at Rockack. 0000. The CHARMAY.-You can searcely speak from equiverse, I take it, as to the sessely of with seeing

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the bureliler classes in the city. Have you sity know ledge of the ctreamstances under which Not so much as I had in the country. I had noneiderolds experience in the country.

3340. What part of Fermanagh skil you live in?...

Bloobbeersph, near Ermskillen.

3311. And had the labouring classes there found a softe thy in getting a continuous milli supply?—There was not much shiftedly then. Some people would not space a quart of milk to suppose, but others would. The showever working for a furner would get a unpaly

Colf. That would be a man in constant employment? 5818. But the carral lebourer had not the san privilege?-He might have a little but of land of his own and a cow or two.

6324. It is a country of small famous residen than
of labourer?—Yes; but there are a great many

2315. Living in Uman oottages?—The Uman rollages had only begun to be built at the Nime after I left Fermonagh fifteen years ago, and the greatnesy 1 sen Periodeago innece years ago, and use creanery system began to be introduced.
2016. Ledy Dynam.—You say you have had some of your own sended?—You
237. What does it out you to have them tested?—I do set know, I am use. I heard that it would be

is opplied, and the buggin was that if the cor readed she would not be said Sile Women now to some.

\$810. Dr. Monarman.—If the samual does not pain
who would pay the fact.—The purchaser, because it
was for his protection that the test was made,
\$820. Mr. CANTERER.—You do not test you own 5321. Are you prepared to sell more cows subject to the test?--Well, it is only in two or these cases that I

was naked to do so. 10022. Do you broad?-No. Sign. No find it is purchased cown that you re-sell?—
We do not re-sell very many eattle. When we have surplus culk, or too many sows due to onlye at the same tases, then we have to part with one or two. 2004. You are not prepared to earry on a trade of

facet. You see not prepared so carry to a wine or allowing persons washing come going into your plans and testing these and buying them?—We see not doing a trade of that kind.

6025. Dr. Mossman.—Do you find it measure to Sees. Dr. measurement.—Do you man it measurery so have a now tested when you are buying si?—It never struck me to have them tested. I never thought of stracts me so now mean comme. A service applied one of them tested.

3000. Ledy Evracin...—I see that you say in your summery of evidence that you consider that one of the remous for the shortage of the reall; supply is that the

remote one can manage or one robe supply is done the farmer is not inclined to give the labourer milk if he show not live in his cottage. That is one of the rescen-for the somethy, to my mind, for the labourer is laving They are independent of each court, and observed are trouble overed by the good and other nations, there might be seen freebox, and one mays "I will not serve went," and the other mays "You are desirg see home, al of you want a skep of mult I will not let you need. The Management Downson Co. 3927. Dr. Moorman, Do you find it profitable keeping come and selling milk at threepence and force.

period a dusty. Xes: in supplies we prace our own case or suppoy.

1928. How intry cozes do you keep?—Prom mg8t to ton or 6025w.

SHEO, Mr. CANTERIA.—Who was it complained about
your manusching?—Our of the mapsetors.

E600. A voterfamy surgeon?—I do not know whether

he was a velocitary surpron or not. 5301. But he saked you to remove at?-Yes. 5332. And you did temore it?-Xee. I told ham if

\$885. How long land it been nonemulating?-During

5334. You could not from without the restrate?-No. 5385. The manuse is the mother of the null?—Yes.
If you have plenty of space and westlattion in the own-house, and the case are kept clean, it is, I think, more Mr. Joseph Boss, s.p.—28th January, 1922.

\$356. You mover beneft of anyone dying become of working on a maximum broup?—No, and I san told that the men working in the drains in the city live the ingest.
SET. The CHARRES .- It was stated before on that many. The CHARMAN.—If was made defore in 1886 there was a practice of carrying latel refuse in the same gg is which the milk was brought in. Do you know if their custom prevails? It has been stated that refuse was brought back in the milk resects?-

Our things go out in the same was, such as poleto peelings and steff of that sort, but there are no slove. send they are not, of course, soi into the same resents on a weed to the noth, but into the same resents

purpose.

5528. I was curious to know whether the statement was well bounded. You have heard it said that the other outsion provath?—Oh, yes, and heard it very REQUESTY. SESS. Ser STEWART WOODBOCKS.—Have you a byre on this form in Bochack\*—You.

5340. Does your man live there? It is my son that living on the spot, and the men are hard and are home or they would go away and got drank.

\$841. The Charmens.—Would you think it possible to carry on the tends of you bed not a seconder of your own family at the larm?—I would not keep on the tends of wound not keep on the tends (or tevath four hours longer than I could dispose

of it.

5342. You believe that personal supervision is the
first ementical to the effected and excitonic management

of dairy business?-Absolutely. 3343. Is there may other point to which you wish to draw the attention of the Commission thus these to which you have referred — I think it have good over the whole thing empost the question of the which dairy. 6344. We would be glad to know what your opinion on that question is?—Well, I think that powerbly a closed mints be useful in some districts, empotally as

the labourers have migrated so much to the villages. 5345. Would you appears of the idea of a dairy being

5346. As a means of distribution you would use the depot?—Yes.
5347. You think that it would be best to leave the to sarry it on, and bosides at would take away milk

1548. Mr. O'Barns.—Do you think that the small tensor, doing she work binned? with his family, would be the best producer of milk—that is tensor, having does conditions and all that, and energing the torines on under his own personal supervision because it has been maintained of a city man or boils would be been first supply of a city man or boils would be better in the hands of large fermens or a company, where they could have a large place for trapeotism. Other people say that the small farmer, who has half a dozen sown, or perhaps, a dozen, and books after them brinself, and has a personal pride in quality of milk?—I thin quality of colle?—I think the small farmer or medium farmer, that is if he to unharmer. produce that milk as clean and more profitably than she other man out, who will have to pay all he hands

5849. You think, then, that with proper inspects 3349. You timek, then, that with proper suppose by the saminary authorities, you could get if small fames to supply a clean article under to cleanest conditions?—Certainly, it is quite possible. \$250. In that case it would pay the small man t do it rather than a must or company who had a large number of cows?—I would think so. I think it would number of sown?—I would think so. I think it would be equally olean, and would be certainly better for the country than if the nifth were supplied by an great company or form. You would have to flenk of

the producer to well as the purchasor. He wants to get a means of bring. 5355. But, of course, you have in the one case a mux and his wife, and, perhaps, a see and a daughter working, and they are working without wages. In the working, and they are working without wigns. In the other case you have an oversace or ferenam and a number of path hands, and all the read of 187—Tes, you can have the supply yout as good from a favor with twenty or thirty, or, perhaps, forly cown as from a larger conserm, and he would employ people too, and 5352. I think these large dairies in Denmark are supplied by fear-stood farms?
Mr. Witspot.—Thry get the milk from farmers. The fermers are bound by a strict code of rules, and if these rules are observed, and illness or disease beetly that may be destroyed.

Wirrens.—If a cow is destroyed on being found tuberurlar I think the owner sught to get compensa-3353. Me Currenza.-Yes, if he lought the council browing that it was discased?-Yes.

The Commission then adjourned until the following day.

## FIFTEENTH DAY-SATURDAY, 27vz JANUARY, 1912.

The Communicacioners met at No. 5, Upper Castle Yard, Dublin.

Propert ... P. J. O'NEILL Ess. (Chairman): Lady Evenard: Miss McNeill: Sir Syewast WOODHOUSE, M.D.; ALEC. WILSON, Esq.; DERMOD O'BRIEN, Esq.; JOHN R. CAMPBILL, Esq. B.Sc.: Professor A. E. MKITAN, B.Sc., N.B.C.V.S.

S. W. STRANGE, Esq., Secretary.

Mr. JANEER SCOTT GORDON CERTAINED.

5354. The Characan,---Mr. Gordon, you see Deputy Assistant Scoretery and Chief Agricultural Inspector in the Board of Agriculture and Technical Instruction for 6355. Ton prepared your evidence so fully and in much complete detail that if you do not mind, possibly you would read from the notes with which you have been good enough to supply us, and if the members of the Committeion denne to sek questions they can do so at factory, and I out stop at any particular part the Com-4356. Yes, to give the members of the Commission as apparently of relating accelerate—Yes.

5357. If you are ogrecable than, and if the Commit isotory owners to fulaw?—I have develod my evidence, as you see, under the following backings—Title Green! "; second, "Days three to develoe occurred with the productions of milk"; thed, "Superiod milk"; Sweth, "Milk surpely for labourers"; fifth, "Surpel, "Englishers," and sith, "Tubecoulosis in ceither "Surpelsiers," and sith, "Tubecoulosis in ceither than the control is considered decrease in ceither the control of the export of dury protects from instinct as largery was re-portantling opinion that where us not so much mulk in the country as termority. The total value of the dary pro-duce (consisting of butter, above, oream, condenses,

Mr. JAMES SCOTT Genners, -- 274h Jennery, 1912.

whate next separated mility computed from Ferdural in 950° was 4.44/194; and in 1984; Sep114.60. Thus in three years kiner has been a decrease of CCCQ, 864. GCCQ, Mr. Whates—May 1 air, operation, 1 was to to molecular part was a computation in the three is to molecular part was a computation in that there is only to mark milities of the consumption is that there is only to make the milities of the consumption of the three is only to the consumeration of the consumeration of the confess it on markle to follow that reasoning?—Generally speaking, because the amount related in briefer which whether the quantity of milits and butter produced in Leehand is conditionally less.

recruited that No. 200.

3815. No Wagner—Not are not making that potts yearself—No. It is gooned also.

No This is a subject to the poster channe, has a similate relation of bood for the poocer channe, has a subject to the poocer channe, has a subject to the poocer community, and that is not also state on the pool of the po

point.

6888. It was suggested to me by a person who has none than an onlinery knowledge of the economic coordinate of the country that is let opinion that had some pulsaring on the restricted outgots.—In all probability it had some influence, but I do not think that it could possibly account for the decrease in botter expected.

\$354. It might be a factor ?—Certainly. From the following digrees it will be seen that the decention in botter has not been did so to a full in proce, but to a reduction in the quantity of produce experted. These figures are for the years 1907 and 1929.

| 1907 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 | 1910 |

Butter has decreased almost \$25,000 cet.
Whole and separated milk secretarid \$24 cet.
Condensed milk; \$2,168 ...
Chance, \$035 ...
7,761 ...

11,245 cet,

\$165. The expect of errors has more thus doubled?

—Boiler has decreased, and all the other products increased.

\$365. Mr. O'Banne,—Yeo say, "From the following
gumen it will be seen that the decrease in butter has

Silicit in Val. to some one converge as some silicit in Val. to some one converge as some silicit in the quantity of positive reproded—To the previous paragraph is a rendered that in three years that years the paragraph of only in the positive in the consumption of only in the positive in the consumption of only in the consumption of only in the positive in the consumption of only in the consu

Saboring with ——(i) the Informe of previous builty (ii) the laking right of Archite or scientify concept (ii) the laking right of Archite or scientify concept (iii) and iii) and iii) and iii) and iii) architecture of the archi

Some darp with the rows. Yes man of the threat is these to you will underwise, and in not alwards whose the property of the pr

reliable one-cleaners ein be fineren. Ment of the assume the control of the control of the similar control of the dimensions of the control of

MN. We reproceed without constructures to the characteristic of the characteristic construction of the characteristic con

The state of the s

than in other districts throughout Ireland. I only conted that care because it has come under my ownMr. James Scory Goronov. - 27th January, 1912.

2021. Led ) Francisco-Townerity the blutters as comprehenged may be seen the mortals freath a row they present the seen of the

5874. The CHAPTERY -It could not be in the same

Mr. Wetsow.--I am not satisfied that it could not in. I have taken an interest in this question of the standard of Eving from the pearst of view of the numerous or fiving from the perist of view of the Brish Driftshead Associations, and during the last fire-yones the demand for what I may call the petry turning of an artism's house hee gone up by about 50 per each. I am toking the import figures of 60 per cent. I am taking the import of settleles which are not made on a large returns which are not most on a large scale in Trelscal, such as jams, bisecute, soaps, and similar articles—the things that a man would begin to buy on—the things most a max would began so only be got above the poverty line, the intremed and in Ireland for these selectes is at least 60 per cessed demand for butter at home and the decrease in opens?—I am afraid I carnot spec with that, I on cepture—I am arrant I extract space with that, I can certain that the standard of living has attaching and gradually aspected, and I think, too, that is the ease of the industries, such, for instance, on the trade, that when you find trade is becoming and the wages higher more suffi or hutter might be consumed by the frantly: but that has not been the case in the by the manny; but was one one way. In the ma-jority of the cells in the North of Ireland the workers ave been only employed for half or three-guarter time. the increased wages amongst those in the shipbuilding yards, have been counterbalanced by the rebuilding yards, have been counternanced by one re-duction of wages paid in the inner midways.

6076. How would you ascount for the entersions rise in five years of this featured for petty lexuries to which

I have referred N-I county possibly do that at the present moment without gains very creefully rate the glucus.

5576. Ledy EVERSON.—Would you not say that the second post also accounts for a critis's country of the country of the

heter that is expected from his country—Ver. 2017. When we gong to refer to that. 2017. Mr. Witters—If you, 20 Guiden, would make 2017. Mr. Witters—If you are considered as the state of the country of

harder Lin Children,—"It is not color use.

3775. Mr. O'Burne.—"On lawer no figures from the connection?—"So. The Statestinal Brends of the Department base from it impossible to procure flyers that res s-tribbe which would indicate shot countillate that the states of the properties of the second of the second part of the properties of the second part of

608. The foreversating was a second some and evalence of the white which the last few or three sizes whose the general results of the first three sizes whose the general results of the size of the sizes of one durry, a modestably large dury, run deals with almost extractively through the purely post-2-show quite a number of figurates was have during outside the sizes of these batter at Regland, and it is almost dispose of their batter at Regland, and it is almost 388. We have hed that in ordering before un?—

Yes. 3888. Prof. METRAL—The same total in the year must be considerable?—Yes. The sale out of the country of the best lettlers in slue perm as a resume for the decrease in the better and the slarged reduction is the decrease in the better and the slarged reduction is the last tarty process, and I do not so there is could have any influence on the reduction of the butter export in necessity saws.

889. The Channess—That has been practically a stundy trade?—You, for the last thirty or ferty year. 6005. Prof. METERAL—More cuitie used not of the security liast year then for a number of years previously?—There are race cuitie as the souther, 5500. What about the expert?—I will touch on this late.

later. The CHURKAN,—Do the figures show that there has been an increase in the expert trade of cown?—White the later or, and the figures later or. Another cause given for the crease is the small properties of milk produced shring the visiter months, as shown is the figures later.

AVERAGE PERCENTAGE OUTPUT FOR EACH MONTH OF A NUMBER OF TYPICAL CREAMERIES, WITH THE MINIMUM AND MAXIMUM FROURSS AT ANY ONE CREAMERY FOR EACH MONTH OF THE YEAR.

Year, Number of Oreamerics from which particulars were obtained.			ch	1906	1907. 45	1908	1909.			
				Per cent. A verage.	Per ocus Average.	Per cent. Average.	Pvr sent Average.	Per cont Maximum.	Per rent Menterate	
Jaguary February				1.70	1-86	1-90 1-50	2-22 1-97	4-98 4-94	-00 -66 -47 1-63	
					2-42	2-69	3-33	6-36	-80	
Lycil May funa fully				5.30	4-89	5-41	5-60		1:63	
May				12-20	10-25	11-42	11-02	15-13		
Fully				15-40	15-10	15-81	15-35	15.56	11-93	
Separat				13-10	15-51	16-09	16-00	19-60	34-25	
September				12-20	12-70	14-64 11-68	11-99	17-28	13-34	
October				10-10	10-46	9-08	P-20	12-17	4-21	
				6-00	9-78	9-00	5-78	10-48	2-75	
December				2-49	3-25	3 09	3-14	6.70	1-51	

Mr. James Score Gonney, 27th January, 1913.

5888, Mr. O'Brason,-The decrease in 5889. Mr. O'Britter.—The decrease in tillage has sent going on for a large number of years?—Yes, for he last fifty or civity years. Latterly, I may mention. the butter export is the influence of premium bulbs. will feel with that more fully later on under the head I "Department schemes," and I have already deal of "Department schemes," and I have strongly deals with the alleged spread of abortion or sterifity amongst

with one hope of the first of the first three is less as the country than three west-Yes.

5399, Prof. Meritau—You really think there is less abstration in the country than three west-Yes.

5390, That the people have become more alree to its asset to be the country of the cou larger?—Yes, and that the people know how to treat the animals better than they did.

5301. And to prevent the spread of infection?—Yes

5502. The Chambers.—Taking the oranity as a

whole, there is no doubt that a more intelligent sice.

recrails with corned to abortion and its freehouse there existed years are. One does most with moletal cause in which the most effly bless proved oven at the per-sent day, but you amont get old preparities record up in a short lines?—Perford true. There were in 1911 1,166,418 coas and in only before in Ireland. During the last five years, that is from 1907 to 1911 inclusive, there were more cone and in-call helfers as the country,

No. of Mileh

Proportion per con to Total Cattle 1.495,835 1,396,924

1,491,316 1,522,611 1,398,047 1,356,595 1.418.644 1.194.135 1.868,781

200

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1,594,425

for will notice from the table that from the period from 1854 to 1860 there were more cown than at any from 1604 to 1800 there were more cown than at any other period stone, but the period from 1907 to 1920 comes next to it in transfers. You will also notice that the peoperion per cont. of ours to the total number of entitle commented during the period 1834 number of callie commented during the period 1834 to 1800 was about 44 per cont.—there were 44 per cook of the cattle of the country malch core. In the period from 1804 to 1810 the percentage is about 35.

Year.	Number.	
1030.	Austrach	Volue.
1906	749,994	824, 829, 839
1906	775,293	9,145,915
1907	943,010	10,419,430
1006	962,684	10,685,19T
1509	838,380	10,751,550
1910		

it will be found that the number experted in 1910, as 5393. The Coverno. - That is a very substantial in-

6394. Ped. Mayram.—What proportion of these see mileb count.—At the protect moment I apple not say, but I can work it out and hand it in later. The next

question it what number of cattle we mare -4 609,550 1906 4.699,184 Average for the eleven years, 1900-1910. 4.589,700 4.711.590

The transfer of calves reaced above an increase of close ported and more salves being reared, would induste that more milk is being used for the rearing of young stock, and less for meanfacture into bottes. I believe the decrease in the expert of butter as largely due to—
(i) a greater number of young cattle being resend; (2) (I) a grante number or young cases using reason, i.e., young airse getting more nells and generally being better fed and excel for; (3) comparing the years PAG and 1976, the increase in the value of daxy produce, other than stater, expected, has deen \$47,286, while the decrease in the value of botter exported has been 5805. The Churman.—You see giving us you own opinion now in contradictinction to the popular views that permit?—Te.

1306 Mr. O'Baser.-You my that the number of only a regard above on mercuas of 20,000?—Yes, 5397. Do you take that as showing that there is less calf mortality?-No, but to show that there nece less gone up, and also the number of young abook being tenred; and we have proof of that in the number of

young animals that are bring experied. 5509. You do not thank that is no recessar partly rating to the fact that oalf mertality has gone downdening or not store our mersion; one game around I do not know whether it has or not?—Speaking generally, I would say that oulf meetably in these distincts where white scour is prevalent has been

5999. In Counties Laurinak and Topporary there has been an energous mortality.

Prof. Murray, -- Of recent years, Mr. O'Barre,-Yes, in quite recent years, Mr. JAMES SCOTT GORDON.-27th Jamesry, 1992.

Wrysess.—Tes, in Cerk, Tapperery and Limerick the mortality was very great, and the Department extrict out quite a saries of experiments. Professor Xooses, the distinguished French veterimina, came over and found that it was due to a gum disease. The Department gave instructions which have

diminished the moutality considerably. 5400. Mr. O'Banes,-I should say that in my own of the country quite 30 per cent, of the culver died? —I have known the mortality to be as high as 75 per cont.

5401. The Chamman,-I have heard of only ball-adozen surviving out of a whole herd.

Prof. Mayraw ... I was consolicted with Professor Nonerd, and forty-one out of forty-five horn died in

Wirness,—My argument was that we have more breeding cows and we have more calves being reased in the contenty. I do not think that the jump of 30,000 in one year could be accounted for by the nortality being less. It is simply because there are more culves reared. Another point is that young colves are getting more mills, and are generally being hetter are govern more time, who we generally group tool and curved for. That, again, has been taking place to a very great extent during the last ten years, and my reason for staking it is that the Department have had letters from the leading live stock sales. men in England and Scotland, mentioning that there and the work of the agricultural metroctors. It is due also to the live stock schemes, formers using

than up better than formerly.

5400. The Cramman.—I have had the same independent testimony from oattle-feeders in Scotland who have been in the halpt of getting Irish cattle for a number of years, and who have speken of the enormous reprovement that has taken place in the quality of the stock being expected from this country, so the stock being expected from this country, or compared with the expects of ten or fifteen years ago, There are independent opinions from hardrelders and I want to make it clear that they are been fife expressions of opinion, uninfluenced by point is that the produce from milk, other than butter, has increased during the last four or five years by 124,200 lbs. Comparing the years 1907 and 1910, the 124,700 ins. Companies of decry produce, other than bolton, has been 201,308, whilet the decrease in the value of butter experted has been \$434,360, and is bound to have some influence on the output or export of hatter.

590. Mr. Wilson.—I have extracted some figure

relative to the import into Ireland of the petty houries of a workingman's home. And I find the following

		1906.	2010.
		£	Æ
Bascote,		74,288	106,707
Chocolate,		15,180	26,096
Orangue,		20,009	189,797
Preserves,		116,949	177,177
Lamps,		26,298	47,324
Perlemery,		2,995	7,650
Scap,		154,905	211,279
Mosterd,		7,890	11,948
Confectionery,	-	356,109	466,145
Hate,	1 (4)	290,473	433,866
Mattersses,	181	6,172	14,652
			-

Total, £1,075,581 £1,546,929

The Countries.—If the cosp was used in cleaning milk vessels the increase would be very grainfung. Mr. Wilson.—The mereus is the use of mustari was given by a friend of mine so a reason for the present moreasing veners in politica. These figures show as 25 loss come un to 1,104 in 1911.

nearrone or a STE, 308—about 50 per seas, to four years. I think that only can be accounted for by the assumption that the chandred of living in the country has gone up. There is no other way of accounting for its These figures are for the last from years? 5034. Yes, Mr. Goedon?--If we had the figures for ton years pater to that we would have them, perhaps, showing a steady improvement. The under-lying reason of these figures is the operation of the perhaps, storing a seemy major ying resion of these figure is the operation of the Land Furchous Act of 1933 and the Labourum Acts. 5405. My argument is this, quite regardless of the features dealing with the expert and import of briter, agreed assuming mean one experts and import of british verryiding in these obtainties where an increase in this hart five years in the thankerd of fiving that is phenomenal. If you take the simple fiftings much as I have morationed the years in entermose. They show, I aggreed, that hatter is one of the items for which the home demand has enormously increased?-My me more outside the vectorizing microsoft—By argument is that you could not possibly have an increase of \$2,000,000 in the cable exported, or 139,387 in numbers, without consuming a very large cuspity of milk.

nes of 4572,348-about 50 per cent, in four years

5490. The Charman, You could not have it produced?—You could not have that marenes. We know that the cattle are better fed dering the seat ten years than they had been before that teme. 5007. My. O'Brony.--In connection with M. Wilson's figures, I may mention that the expert of Irish hiscoris has decided doubled.

increases are in articles not made in Iroland, or only made to a comparatively small extent. For metance there is no mostard to speak of made in Ireland, and the damend for mosterd has nearly doubled in four

Prof. METERS,...They must be laying more beef, Wirsten,....I shall now deal with the schemes of the Department which are connected with the prediction of mile. In the year 1887 the Boyal Dubin Society were given a Gyrument grant of 32,000, to be expected in the improvement of live stock, Individual cuttle. The was administered by the Society samedly critic. This was afmirintered by the Society simulally up to 1902, when, with the concurrence of the Society, it was transferred by Act of Parliament to the Depart. is was transferred by Act of Paragraphs to the Deput-ment of Agriculture, which was exceed in 1899, and commenced operations in 1900. The Department's scheme for encouraging improvement in the broads of oattle, which was first put into operation in 1901, was nord, no far no was readble, on the lines of the Royal Dublin Soutety's cattle scheme, on the grounds that the latter was well-known and gave ministerion. In the first year, thirty-can out of the tharty-three Gounty Commile in Ireland took up the selector. Every year times all countries have done so. I should could in sends an occurate three noise as, I should explain this cosh to ruly raises a rate of from \$M\$. to \$M\$. to \$Agricolculture and Technical Instruction salteness, and the 
Department supplement this rate by a direct gents, 
provided the submust adopted by the Occupt Conmittee can be approved. The selector for the improvemittee can be approved. The selector for the improvemittee can be approved. The scheme for was improve-ment of cattle takes the form of substituting the size. Briefly, the scheme is an follows.—The County Con-mittee annually offer a number of substitles, in the form of premiums, varying in value from £10 to £15 each, to the owners of high-class bulls, of certain specified brooks, on condition that small farmers of a certain valuation can have the use of such hells for their come at a nominal ice, varying from La to 2a, 64 per ors. The Committee uses silverturements offering a number of pectations. From among the application at number of pectations. From among the application to these preservors the Committee choose the requirity toucher of pectations of the period of the are minimal by the Department's Importors, who mark, by means of ceres, the ammals eligible for pressumes, and emiss intending purchasers in making their selection. Promiums are usually continued in fivor years, if the hall power satisfactory and is kept in good emilition. The sumeds are inspected such year by the Department. The County Committee theoldes (a) the breeds of bulls to be substitud; (b) the valuation of the owners of the cown; (c) the number of seriod promiums to be given to the same aniswi, and many other details. The following table shows som many dues around the blocking was the market of premisions given such year runes 1900, and breeds of cuttle substituted. If you look at the last colours, under this head of "Grand Total," yes will see that for 1901 the number was \$60, and that

## CATTLE SCHEME, 1901-11.

	_	Short- born.	Aberdesa Abgres	Hean- feed	Red Lincoln	Gul- loway.	Kerry.	Reg. Duiry.	Red Pelled.	Total	Grand Total
1901 County	Promissio-	847	81	43		2			1	-	350
1902 Overaly	Prezzame- Total	197	58	26	- 6	- 4		-	-	-	484
1963 County	Proxisos— Total	472	78	58	5	- 4			-	-	638
1004 County	Promiume -	267	60	63	10	- 6		=	-	734 8	=
	Total	546	100	63	10				-	-	712
1965 County	Prompano— Extex	599	164	65	10	14 4	-1		2	795 33	-
	Total .	609	111	58	10	1s	- 1	-	-	-	528
1906 County	Prenumero- Exten C.D Term	617 26*	117 16	67	8 2	12 8 13	1 9	Ē	-;	821 51 25	Ē
	Total	641	133	67	10	33	10	-		-	197
	Presspania- Extra C.D. Term	934 31†	122 31	- 41	13	16 16 33	2 1 13	Ξ	- 3	813 51 49	Ē
	Total	695	153	41	15	59	16	-	- 4	-	943
	Promume- Extra C D. Torm	900 33	123 42	61	- 5	5 20 51	2 	-	-1 -3	900 95 73	Ξ
	Total	653	165	61	5	79	21		4	-	568
	Pregname— Extra C D. Teeta	579 27	134 43	78	-4	9 25 80	22		1	812 100 72	Ξ
	Total .	606	157	18	- 4	85	24	- 5	1		990
	Prossume	578 50	1889 57 1	75 1	-1	11 22 60	1 4 16	13	-	838 135 17	-
	Total 111	628	897	76	1	98	21	24	-	-	1.090
	Premient — Exten C.D Term	585 59	276 72	73 5	=	10 22 58	2 9 10	19	-	967 168 69	=

\* Includes +ight half-level Sharthorns.

† Beliebe two half-book Sharthorns.

Purchasize Bed Lincolns, on the magnity of the arievale

6406 The Charman —There has been a gradual and steady morease?—Yes. Under the head of Shorthomes in 1911, there were percentag given to 643 satingle of this breed; 369 to Aberdeen Angus, and 60 in Gallowski.

5400. Mr. o Theim — The other day we look evidence to down that the term illician had here produced from Bod Talcedra, and I rotate by your tables that the Bod Talcedra, and I rotate by your tables that the A greet many people here the late that the Bod Limonius see all good million. That is not iron. They mills round for the hard of Pad Limonius see all good millions. That is not iron. They mills rounds not yours, and publishing the records are not sufferable combon of yours, and publishing the records are less thanks to be a see a large and the late of the production of the produ

form it Directionies were out good millions.

Mill, I were also possible in go on trajectory for the Bill, I were also possible in go on trajectory for the million distribution of the comparison of the property of the prop

azimals for no other reason except that it was impossible

Mr. JAMES SCOTT GORDON,-29th January, 1912.

to secure them at a commercial price from the head from which it was desirable to buy them?—Yes, 5613. And that the ordinary righ and file of that particular type were not better than shorthown raised in other parts of the opentry? Yes. 5414. Prof. Marray,-And at about one-locath of

5485 Mr. Winson.—With regard to the shortherms, are any of the 543 that are now standing at permum regarded from the milling point of view? Have they

n dairy pedigree?-Yes.

5416. Independent of the twesty-one on the rega-reed dairy fini?—You, but only a few. The regulared tered dairy fait?—You, but only a few. The regist dairy cow may be a pure-bred or a hull-head cow. will depend on whether the sare is a registered dairy

6417. The CRABBUS, A question I want to sak maybe come in here. In it not a fact that the Departmaybe come to here. Is it not a fact that the Departmiliting records of shortherns are kept for the purpose of beinging them into the country to produce stock that would be likely to improve the milk records of the sountry?—Yes.

5418. So it has not been lost might of by the Department to accresse the maffe production as well as keep up the standard of beef-producing animals?-No. I go into that hier on. I now come to lear for the jurchase of leifs. The Department for learn to establish small farmen to precisive premium belief. Die learn is tweether premium belief. Die learn is tweethinds of the purchase-preies, and is requestly in two samel instantants, with 2 per cost. solvent on the contenting beliefs. The full are measured in the contenting beliefs. The full are necessary in the decided with a public company at a per cont. for the full parathete-price. In 1014, learn were granted for the procedure of 22 billion. Belly, the last pricease was started to enable non-wine very companitary contents of the procedure of 22 billion and procedure was started to enable non-wine started The Denniterent size loans speaking, poer, to numbers bulls at a ng, poor, to purchase bulls at a price which have been prohibitive if they had not got a

5419. Lody Eventon.—You spoke about insurance being effected at 5 per cent?—Yes; there is no difficulty

5420. Mr. O'Benev.-The bulls?-Yes, the bulls ? am speaking of see spearing co.

4633. Mr. Carrarra.—Lady Everand, I think, rether
understood from your snover that supers could insere
at 5 per cent. I do not think a private individual
could maure at that figure?—Arrone set 40 per
cent. And I think that it an individual approached
one or two of the live stock agents and offered 6 per
cent. that we good be remembered to see cent. ocot, they would be prepared them reight. In the case of the Departmental looms the number comes up to two bundred, and this induced the agent to give the murane for slightly less

5438. Because these bulls insured by the Department do not require to be impreced by the instrument inspectors, they take the Department's inspectors.

5428. Frof. METTAN.—The Department, I take it, advisor the problems as so the kind of bull that would be untable for his requirements. Then, the impediate at the subce or shows drives the farmers, and sll the returned are related prior to being sold. The farmers and successives are related prior to being sold. The farmers. at the more or more agrees the farmers, not all the animals are selected prior to bring sold. The farmer one always have the advise of the Department's inspectors. In a great many cases the farmers and the impertors to look at mirrorle, and they savise them. 5424. Lody Evznato.—They have great faith in the County agricultural instructor?—You.

1425. Mr. O'Bann,-May I sak if at 10 the practice sates. Mr. O nomen.—May I sak if it is the president of the Department before giving premiums to sub-bull to have it tested with the utherculan best—No., but it is optional for the County Committees to put that into operation if they decare, and within the last law years come of the County Commentees have made. the test obliquiory, and now it is becoming much more general to have arrived exposed for sale at these schedul to have attends exposed for sule at these spring shows or cabriritous tested prior to their going there, and with a certificate that the animals are free

5426. Does the Department, an selecting bells in-remiture, make it a stre-que see that they be tooked? No, that is left entirely to the County Committee.

5427. The Department is orndom out or openion spring bolls for the inprovement of the sattle of sazzing bolls for the improvement of the satter of Ireland without testing them to see whether thry would plus the tuberculin test5—Yes, but, of comes whether there the Department requires that in case of a recuise ball the snimed must be kept in a loose box by bloucit. then the bulk; therefore, no great adventage is grine by testing the bulk; that is in preventing the openal of by testing the roll, that is in poverning the operat of tuberculosis. It is a guarantee to the purchaser that he is golding a more bealthy built if he gots a certificate

5428. The majority of these built that are sent down 5428. The majorny to these outs that are some for show purposes, and sold at spring shows, are all very carefully looked after and interned up from these early radency, and they may look very well, but at early infector, and they may look vary well, but as, the same likes not be free from thebroulesis, which may break out when they are, perhaps, a year or, a year and half odd. I ask this question because I had no unfortunate experience in the matter, and I did not know whether the Department but taken that as rate emergention—that they should only grant premisons to bulk that were certained as from

5429. Mr. Casesura, Do the Department find that a large percentage of these bulls die from tuberculosis! 5400. Mr. O'Brans. Of premium bulls?—Yes, it only heard of one case sense 1900. I do not think the

6634. The Changar, And they would speak from experience, and their judgment would be influenced by

5692. Mr. Winson,-With regard permittine, as the premium given after the sale or before the animal is sold?—The animal is selected for a promium before the sale.

sees, that is not ubst I mesni. In your openion who gets that premions the first year?

Mr. Company. - The man that most needs it. Wirsnes.-Your question, Mr. Wilson, meets it the permium bulls was high, because there was a number bred, and the demand was greater than supply. In recent years I have seen permum bulk sold, and the difference in price between the man-premium bull just below the standard, and the premium one which is above the standard, as very little.

5034. Mr. Caurema, .- That applies to Belfest more then to Dublin?-You. The resson is that the number of bulls passed there is greater than the decound. Even of bulls passed three is greater than the domand. Even hat your coase of the Merdinea Mayas bulls that got no premious obtained as high person in Dabhn as those tool get premious. It led it makes really of supply and dramad. As a rate, both the breater and the porthaser derive as advantage from the premians. Specially, I would not say this the breater particular deep generally, I would not say this the breater when the premium, or test the purchaser got its vibils of 50 km.

5435. The Causesto .- I think it is quite fair that the premium should be divided, because I think the breader is catalled to some consideration in producing the animal?—Yes Same people attribute the detrease in the quantity of milk produced in the country to the influence of the class of premium bullcountry to the influence of the class of premium bulls oelected, and the thirt there after produce but millions buffers. The promote on which those was structive to those the promote on which those was make much as american their opening, as, so for, no foots have been address of the good of the accuracy of this contention. If records were kept of the milks of the growth them, how many the product of the milks of the cows that have been mated with promium bulls, then of reliable data from which to draw conclusions would be smileble, but, so for as I am aware, no such date are

Mr. JAMES SCOTT GORDON .- 27th January, 1912.

in emetence. I may been exection that at all the Department's Agreeolismal Stations milk records are temp kept of the ducty stock; and at the Uniter Ducty School an exteringual in beam carried out which. B of wint influence the size has upon the milling pro-perties of his offspring. It has also been stated frequently that Scotch shorthorns, though they may excel as beef producers, are very inferior as infligers, an that the Department have imported large numbers of bulls of this type to the detriment of the darrying

both of this type to the definions of the durying industry. New, there are filter types of knotherms, the Bodh, the Bules, and the Boths, and pool and the Bodh, the Bules, and the Boths, and pool and the bodh, the Bules, and the Boths, and pool and the types. In this matter energing deposits upon whether the course or overces of these thans have in pervious pools point absolute to the production of have a delay bad of theiry cown. Nextly all of these water purchased as yueshing hardren in the Cockitovic distort, and road, of them say the property of pro-chased, and the state of the control of the con-trol of the course of the control of the same and the control of the control of the same attention when the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the con-trol of the control of the con-trol of the them, although not eligible for entry to the Shorthern them, antecogn not engages not unexp on two concerning. Herd Book, one practically pure-beed, so their sizes, guardness and great grandeness were pure-brief sheet, before, The average yield from this herd in 1910 was 650 gallons. The new 1900 the Deportment have pure-based in Scothard and in Naghard 904 built, 316 being 1910 the pure pure pure produced and the new part of the produced and the new part of the produced and the new part of the produced and pr the floors and 250 Aberleen Argus and Galloways. The greater zumber of these were sold to applicated the very possess districts in the competed areas existes, but where the risking of trace cuttle by the chief industry. At the Albrit Agricational College, Olisaresin, the solin records of the dusty caves have the solin of the college of the college of the college for a great many pears. The following the solin description of the college of the college for the last twenty-one years, with the college to years, for which the records earned zow be pro-ceed. The estimate kept in this brid are longlet in the college of the college of the college of the proceed. They are the years, or vental kept in this berd are totages are cored. The entrals kept in this berd are totages as the Dublis market as they are required. They are high class cover, berd in different parks of the nearly, from which they are sent to the Dublis market for make. The figures show no docrease as the average

YEARS AVERAGE OF ALBERT AGRICULTURAL COLLEGE



Mr. PATRICK CLUYS examined.

5465. The CHARRICAN—Certainly not. (Fo Mr. Clause.)—Will you tell us the pennel over which your experience of the Albert Institution extends?—Since 1974. 569). You are familiar with the dairy forming that as been corried on at the Albert Institution during

5447. And you are fearning also with the class of somnals kept on the form?—I bought them all, 5468. Of course, we commot evepon you to retain in your memory the prices of the ministinal cows that were bought at different periods, but speaking generwere beeggs at efferent periods, but speaking generally, do you think that there has been any substantial change or increase in the price, say, from 1880 to 1890, and from 1890 to 1800.—Very hitle for the

Average 2003cows. 1900 Average.

so that really, if anything, there has been an upword tendency. That is the yield for twelve months. 5496. The Chamman.—That rather relates the state Shorthum both has had a destinated offset on the production of milk. Although the average yield was higher in 1966-7 than in 1911 it must be remembered that the past year was not way forecastile to the pro-duction of milk, owing to the very day wonder?—These cover, as a rule, ceme from altroid all over bristed with the analysis of perhaps, of the Norsk. 257. Feek Marweller-Fox do not know then breedil?

Selds. Mr. Witness.—In these any record of the price obes. Jer. Wilson—as more set; recent of the pre-paid for these bessits—From 220 to 25%. 5600. It may be that the cover that see giving this average, cost you more than they fild tweaty years age? —I do not him as. The form meaning can't beyor the —I do not time so, and name memory only very uncoverhalt is lifter to give the most milk.

5400, Mr. O'Rama.—Those attends are not fed more expensively to give a larger quantity of nellst—They are well fed—active than the average own in the

see Wil 102—2016.

5461. The CRIMENY.—They see 506 fed regardless of cost)—No. Speaking generally, there has not been a great difference in the cost of feeding.

5462. This Albert Institution has been under a feed This property in the cost of the s great employee in the cost of feeding.

1442. This Albest Ensitivities has been under a
Government Department, and naturally it would be
the desire of the person estiponsists for horning the
corns to have the heat type of amount in the head-5443. So that there is no change of policy with re good to the class of cown bought, or the itentenent to

I know the place before it come under the Depart-ment's administrative rule, and I do not think there scort's commessative rue, and I as not think more is any malical change in the class of cottle benght or the leading given, as I think the records may be taken as a few indirection of the normal condition?—That is 5444. Mr. Wilson .- I think we runy sak for the

prises.

Mr. Coursent...—Mr. Petrade Clure, Imperior of Live
Stock under the Department, who knows more about
the mill tends that may make far-lind, in present,
and was carponable for a man in far-lind, in present,
and was carponable for a management of thus place
until a few passes ago, and all you see no objection, I
should like to poi to him a few questions.

5440, And 500 are familiar with the prices that were peed draking the following decade from 1960 to 5450. And has there been my considerable v in the priors of the cows during that period?—The variation depends more upon the sensor than upon the

class of one. In the spents you could get a cow a little cheaper than at the true of the year I mustle-bought them, in August or September, when cow-were sources and these was a greater desired. 3451, 04 comes, you have bought at different

5432. Some years you might have been able to buy a larger member at the period at which you thought they would be changest?—Tox.

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Mr. Partics Curse, 27th Jossey, 1912.

3433. But at other times you would be compelled to long regardless of expense to here up your supply?—Yes.
5654. With regard to fooding, how the cown home fed its such a way as an ordinary better working for positi could not affect to feel them?—No, certainly, not, there is no contemparation. If their its position that

mu it good a day at a constant—No, certainly prefit each not effect to feel them.—No, certainly not, three na no charmed by feeling her will.

\$450, Of some, one would be perhaps, n little nor charmed by feeling her will.

\$450, Of some, one would be perhaps, n little nor charmed of the cook would be perhaps, n little nor charmed in Giancerie, and their conduct, perhaps, greater than world be found in the orderacy day, girl, but there was nothing like classingance.

greater than would be found in the orderacy daily, level, but these was sooting like estawagance pecieted. It was done on purely commercial lines. — 500. Has the cost of brepting onthe increased, do you blink, since you were first featilist with the place? —The cost of keeping was precisionly the same. However, formed the basis of their lood, and they were produced formed the basis of their lood, and they were produced

formed the basis of their food, and they were produced on the firm, and bay was also produced, and the rest of the land, of course, was the same throughout, except a little ladger arise for leading steff—color, 640°, Mr. O'Berne,—When shoul the wages?—Three was very little difference. Wages thirty years ago were, \$4)- a work, and they have been masse to the

or Ref. The Increase of region was not a substantial instal on the cost of relating the mild.—No. 2460, Nr. Wilson to the cost of relating the mild.—No. 2460, Nr. Wilson.—In your opinion, the price that was paid for three high-class daily cover in 1901 as not very different from white is paid new?—No. 4460, Prof. Mercan.—Do you keep the cover from were to ween or do you different or when they

year to year, or do you dispose of them when this become dry?—Some of them. A new that milked 1,000 gillons, I would not part with her.

5461. One that yielded 500 gillons you would?—

Yes.

5463. Ludy Evenue, —Had you a cow that gave
1,000 gallons —I had one that gave 1,500, but she
nified for the enter year; 100 gallons is very good

for a cost.

64/63. The CRIMINAN.—Herords are always kept for
the year?—Les. The day the core is purchased there
is a number put on her here, and the refit is weighed
cocuring and overlang up to the time she leaves.

54/64. Ped. Mergest.—Do you think there has been
any improvement in the quality of the cores in the
Dublin method during the percola—I would say there

Dublin merket during this persolf—I would say there is no improvement.

5465. As regards their mole-producing properties?—Yes.

The CRAINSON.—The figures been would rather indicate that their is no inconvenient. The severage

The Cickleich,—The fagress new word folder for the Cickleich,—The fagress new word folder for IIII as higher than for any persons agree, which was the conducted from any potentials have a februar, and there adoleshed from any potentials have a februar, and the conducted for the con

go to Gresi Britain. Has there been in sucrease, in your experience, in the demand for good miles cove from Great Britain?—Yea.

599. When did the competition begin to be scole?

Within the last tworty years, and it has forenessly

selful. Prof. Marram.—There is a lensure competition
more for those good cown?—Yes. For the London
market there is a kenner competition for the great tag
out that is wanted there. For Scotland they want is

-ow their le washed three. For Ecotilizing may ware a moderate-indeed owe, and there was one man who lought on an everage fifly cows for Scelland severy marked day. Now there are a greater manusc bryung the kip, good outifs.
5771. Mr. CARRELL—Woold you draw from that the inference that the military qualities of the Jrish estille are going down!—No, but that they are going up.

5671. Mr. CANTRILL—Would you draw from that the infections do its de multing quadrities of the Jinsh estille are going down!—No, but that they are going up. Prof. Exercise.—The average for 1911 is less than for 1937 in the Gianceya records. 4472. The CRIMINAS (in Mr. Groden).—Mr. Gordon, Professor Mottlen has directed attention in the foot that the average for 1911 is limit than for

1997, but it must not be bod eight of that had your was an absorbed you in the unifore of decaphith—Level \$130. There was a sufferent complaint 31 over the United Kingdom?—Yes in soom pair to disreptived the open west sinner control type; Mr. Wilson,—That makes the Sigure for 1910 more registerious.

Mr. Wilson, "That make the figures for 1000 more mysterious." 5074. Lady Evenuse (to Mr Clane).—Mr. Clune, acthe cores in the Dubbn masket and before calving?— No, ofter calving, 2075. Then the calves remain in Lieband?—Yee.

No, ofter calving.

5475, Then the calves remain in Lieband?—Yes.

5476, Mr. William.—What would be the sverage prize of the core you describe in the Dablin merica? —It varies from £18 to £23; an exceptional over might go up to £25.

\$617. I would like at you could note that problem shout the yearly average of sull yathled. The recently shout 1011 make one married what our be the explanation of the figures in the other years—Non amount sassing a particular reason. The manager maths beyone to buy a few bad millows, and that would bring down

byn of the figure in the other years — too three seems a particular reason. The manager might beyon to buy a few bad millions, and that would bring down the average.

Wr. Gennes — It might also be due to a greater percentage of the cown being young—cown baving their second or their claims as compared with the cown.

having their fifth or sixth calves.

5478. The Channax.—A new that would give 1,500 piless of suffit would be very profabile?

Mr. Carne.—She would be a little spring well.

Mr. Curum.—She would be a little spring well.

Expensestion of Mr. Gordon continued.

5479, Mr. Gosmon,-I now come to the Barry Cuttle Begistestion Scheme. Beverid County Committees take etops to improve the militing qualitars of outile, on the ground that, owing to the demand for stores, too much attention was bring poid to the pro-duction of hard. Some of the Committees wished to Agriculture, deemed it undesirable to have separate independent schemes for each county. selves establish a register for such naimals—nows of defined two and of high-class milking qualitiesand, secondingly, an Irish Dairy Cattle Register vir started in 1906. Briefly, the schome is as follows: started to 1906. Briefly, the scheme is as follows— Owners of teosoberd and pure-berd shorthern dary cows are invited to apply to the Department for the conv. Its littrem of animals which they consider suitable for entry. The Department have these animals impected for general ment (appearance). The owners than loop a record of the your of milk of those suimals pro-visionally spheeted. If at the end of the milking period visionally selected. If at the end of the militing period the yield of milk from each ammal is 100 gullens of upwards, containing 3:5 per cent, of butter-fat, the amissal is duly registered. The Department during each sesson inspect the costs several times, have the male weighted, see that the rocceds are kept properly, and take samples of milk to be tested for batter-in-The owner of each registered cow must have the arises of her own type, passed by the Department as surfable for a premium. The female properly from those rega-tered nows are eligible for entry at the register after fered cows are eligible for surtey at this register silved imposition, and are externed only when their mile record is up to the standard required. Bulls, the property of these registered cows match with approvi-sities, are also eligible to be selected for prematural provisite they reach a four standard of megit. Of these provision they reach a four standard of moett. Of itself-scattered dury pulls, there were eight in 1800, togeth-in 1800, and tweety-there in 8011. Ehren are it were strength in 1800, and the most strength in 1800, and wereign stalls, 1818 in 1819 galaces, the mexicums being 1,460 gallons, and the minimum 200 gallons. This ex-, of course, selected cows, and see not 40 to leakes as representing the average delay captle of the occutty. When it is considered this in 1911 there were 1,565,100

miles own in this country, and that the average samual yield is estimated at 400 gallons per sow, it is clear that there is considerable room for improve-

ment, it has been proved by those who keep sulfrescords under the Department's Bulry Register Spicons, that there are in Irsinat many cores which are milk redds of from 600 to 1200 million are

servery. This shows clearly that if the average

Mr. Jayre Score Gorners .... 27th Jensey 1919.

the whole country is 460 gillous only per namero, there must be lussified of cowe gring very much less than 400 gillous ends, or, in other words, three must be a large number of cown which do not pay for their heep, and which are more personners on the farm. the only charge.

5481, Mr. O'Branc.—Was it not is 2-No, only
26, 6d. I now come to deal with milk records. It is evident that these unprofitable sows should be got rid

of; but they must first be identified. This can be done only by keeping milk records, that is, by violating morning and evening at sertions intervals, any, every week on a particular day, the milk of each cow in the bend from the time the salves smill also cannot yield. By this means farmers are cooled to externize which azimile pay and wholh asimals to being kept at a less. The keeping of such a record is companished simple, as it involves a very small cost and hardy any labour. The great advantage gained by heaping records is that is enables those who herfor calver. It mustly follows that if a cow to a forther entroy. It issuesny indows that it is now in a good nillker her female progeny will also misk well at good millsing herd one be built up only by selecting the best million suimals and beening from them. materians where ten course has been skepted, I may quote the results ochieved in a person dainy beed owned by Mr. John Dwars, Burton, Lifecoth, In 1986 he started to keep records of the milk yield of Si

he shares to keep recorns of her man year or coars. During this year the average yield per con was 740 pattern. In 1910 the average yield of 38 coars 1394 per cent, busy first call herizon in the same beef was 834 patters, or mercean of well over 80 galloes per cow. 5482. Prof. Marriss.—Natwithstanding that there was a large persentage of cose that dad not come up to then full milkings. You. But it is sometimes the one that although a own may give a large quantity of milk, yet the malk will not produce a high yield of butter, or, m other weeks, it is post in batter-det. It is, therefore, equally important to succreasan the percentage of human-fat in coals com's milk. Appeari obtained by astrag samples of saab costs smill coops a scale (in the meeting and in the evenings, among them together and preserving them useful the red of the state of the samples are to the samples are to estend the account of the samples are to the samples are these cover that give mult with a small possentage of these cover that give mult with a small possentage of these cover that give multi with a small possentage of the samples of the samples of the samples of multi-owed Mr. of Denny.—Why.—Becamer if you are one under these care conference, from the multi of a new under these care conference, from the multi of a cow under three per cent of fat, you produce less in

d geren quantity 3484, I was the 3484. I was thinking of the matter from a point of your of a occion number of farmers—all they want to an as to procuous a corumn quantity of milk, and though in certain places there is impection for the quality of the milk, you would find in most country fowns that there is no impection of busier-fair.—That Marraw.-Take the milk scot mas the

essancy. Mr. O'Barnot....That is taken on the butter-fat; but there are a large number of people around who produce there are a sarge statuter of people accuma who promine milk for sale, and they want quantity.

1486. Prof. Mirran.—And the impector comes along and proceedes these if the fat to below the stong and processes men at the country, and also with regard to buttermilk and separated milk, to we if there so water added.

3486. Mr. Whater -You. web. butter fat very high? I think it is advisable to do so. your standard

567. That seems to use excessively high as a minutest?—These were very few samule that had to be reported; many of them went up to 4.5 and 4.8 pm

\$488. The Chamman What properties were reported by reason of a lew percentage of bottor-dat?. I council my that, but there were very few of them. 5480 A very limited number 5-Yes, these corn are wilked at regular intervals, and not like where a head to milked to supply a town only in the marning and early in the efferment.

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5490. Lady Evenues.—I see that in the United States the standard in 3 25 per over, of hester-dat, and 8.5 of solids not fat. That precentage is required in the Prof. METERN -Three per cent., the legal standard, is on the low side.

Mr. O'Burn,—We had a wittens here yesterday who Mr. or marrie, -- We that is expected in the bond was arithme and of this class-

Mr. O'Braze......It was remarkable that the average of the whole berd should have fallen at lutervals vary succh below the standard. Of course, he could not

5091. The CHAMPERS.-And it only shows what risks are being run by people purveying milk. They are liable for prosession, because the cow goves milk below the three per cent, standard of fat, and sometimes a milk vender may lose be absented through to fault of his own. That is a great bardship, and must restrict the trade?—The Department's remon for looping the straded as high in that it is the hard for hooping the stordard so high to that it is the name for building by a chirp herd. As regards the influence of the building by a chirp herd, the post of the solution of the building for reals. The are of the building her main. The are not the building her main, the maintage and the building her main. The are not building her main, the maintage properties of this floward property, but how for this influences affects has above it is impossible to say. So say, So influence affects ma stock it is impossible to say, so, for as I an azare, no records of experiments here yet-born published which affect sufficiently account details to warrent a definite option being expression on the subject. We know that some male arrivals have greater powers or perpensions or serm than same, and that some bulk produce better reliking healters, with heliter developed unders, then other bulks; but how for this in strictbushle to the smoothy of the bull it is difficult to determine. Personally, I believe that the bull has an influence on the milk-producing that the bull has an unforce on the null-production respectived in formal originary, but if a not obtain that a bull wait is suiting polyme, or one premi-tal to the bull wait is suiting polyme, or one premi-ple of the production of the producti

the last three years the Department have received a has been pretty met by the purchose of regariered during.

(a), the propago of core registrent under the Department is selected, and the Department is selected, and the Department is selected in the Department of the Propago of the Department of the State of the Department of the De peacett only a very limited remaker of lensh breeden of pron-bred sheetherate keep records of the milk skells of their cows. In the year 1971, Beweren, breinty owners extered 115 perceival cows, and it is to be according to the product of the product of the control according to the control of the control of the control according to the control of the control of the control of the hoped that in a few years there will be quite a good supply of bulls from pure-beed registered cows in country. The fact should not be overlooked than the durying districts are confined to certain seem [as shows on this mup), and that outside these districts

either for sale or for manufacture into butter. During

there are other mean devoted to the runing of store earthe, or clas to the present of stores. Some authorities in Ireland hald such strong views on the confine all the pressures to built of that type; cut it must not be forgotten that, connected with the built of that type; care breeding of ostile, there are three important industrieincoming of castle, there are three important industrie—[1] durying. (2) the tende in stores, and (5) the fat or head castle made. In 1920 the export of dury or bed cattle tasks. In 1920 the expert of share probases realized 45 997,492 tere cattle (mobiling cattred), 25,599,264, which cover and bridges expert costs for costs, 2337,794. The step-ter expert costs and state of the step-ter expert costs and the state of the LL1,647,285, or nearly these times therefore, we that the state of the state of the state of the task open times in stary produce. All bus substitets are dosewing of recomponent and occurrence source in the state of the state of the substitets are dosewing of recomponent and occurrence source in the state of the state of the state of the substitute of the Department source in the state of the substitute of the state of the state of the state of the substitute of the state of the state of the state of the substitute of the state of the state of the state of the substitute of the state of the state of the state of the substitute of the state of the state of the state of the substitute of the state of the

soccelingly, would

Mr. Jawes Scott Genney, 47th Jameses, 1912.

not be justified in supporting one to the disadvantage of the other. In 1915 the Department inserted a provision in the Dairy Cattle Regularation Scheme with province in the artery Costic megistration Scheme with the object of encouraging the members of crossners press of in that cover book association appeins of successry, who sees that the records are kept, and tests the milk for butterfat. The Department supply record hooks and a small money grant to each secondarion to assus in paying the sacratary. Twelve associations have already been farmed, with 168

associations have already been formed, with 193 members, who ere prepared to test their coors, whenho number 1,425.

5492, Mr. Winnox.—Are you, from the knowledge that is available at the present time, of opinion that these impossibles are likely to grow. Have you say, information already these progress during the last few information already these progress during the last few. months?-All the information we have got up to the seement seems to point to their repid growth.

3496. Become I assume you would take it that this iss at the very bed-rock of improvement?—I quite

ages with you.

5494. Mr. O'Burn —I remember at the beginning of this idea of dairy ortile registration there was a result let of talk, and I trud to bearmer it into the meeting to which I refer spent a very long time discussing whether permitted about he increased or

3485. With report to these con desting stations, is the position settled by the Dayartonat, or can my enumery become a station?—Any creamery or body 5496. Even elthough there was snother one sireed

established comparatively near them. For instance, three is one at Glerowilliam, near Bathicole. I am at Ardoch, with two bundred and seventy suppliers. proposes or every recover or. 1014 would be the deter-mining factor.

5497. And not the distance from another station?

No. 5408, I did not know whether the Department should be each country a certain sum of money?— No, those who sek first will be first served. 569. The CHIMMAN,—Kilberny was the pioneer?— It was in the dary bell, but not in the keeping of

records. 3500, Mr. Campuzz.—There are two inspectors whose duty it is to attend to this and nothing else?—

Mr. CAMPSELL,-Yes, Warnessa. I now come to another part of my Wirenss.—I now some to another part of my confesses—for even on obving —The time of year at which cows easier influences the yield of milk to a considerable extent. This has been above by the experiments on water milk probability carried out in County Coult in the years 2001-8, under the suspecss

of the Agricultural Committee and the Department, by House. Advans and Prendergast. Two occides were The Manual Annual Communication and the September States and Communication and Commu

if hed much longer than more than curve as opening so not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy cows should be not mean to suggest that all dairy considers that all dairy considers the suggest that all dair he managed so as to neive in October, November, or December, but if it were so servinged that a mich larger proportion of the total number of cown is Ireland calved to the autumn or early winter the xield of milk would be greater, and, in my opinion, it would be advantageous to the whole dairy industry of the country. In addition to the County Cork experiments already referred to, experiments were conducted in County Down on two forms during the years 1902-8-9 and in County Pyrons one experiment of a similar character was carried out at the years 1910-11.
series was carried out at Cloudellty Ag series was carried out at Clouslitty Agraratural Station during the period 1906-9; and the Department are at present currying out an experiment in winds durings of Bellybase Agricutoral Satistice. It is materiald to continue this experiment for a number of years. The results of the experiments show clearly that whate durying will pay when cours give as avecage yield of 600 galletes of mili-8504. Mr. O'BRIN.—Before leaving thas question of the Cork experiment, how were the cown selected? beed-five average cows in each case, and one or two had to be brught to make up the number. The cows

were simply selected for appearance.

5001, Without selecting them on their record, it could not be said to be a really account test, I think? 5306, Prol. METTAK.—There w. was no married 5507. Mr. O'Barrot .- I ask this curetion not to cavil at the experiment, but I hered at the tune a great

many people were complaining that the experiments were being menual out to show a seriain toing, and that the coses were selected to prove that?—The core were valued in every instance, and the winter cove of occ of the forms totalled 250 and the summer cove £77. They ran so follows:—£16, £17, £16, £14, and some type, size and value, and it was the same with the other herfo.
5308. The Ontmonox.—Will you kindly

with regard to how those winter cows were selected for the experiments, and I explained that the avenue for the experiments, and a expended that one accom-now of the hard was taken, and as nearly as possible they were the same size and value. In the Cork they were the same state, and value. In the Cerl corporation to one farm the winter milling core left £4 to .26, not profit, and the summer cows a nel profit of £1 10s. 16. On another farm the figures were-ful fit. The profit conferrs, and for five summer. detail on a sheet that I have here.

(500, Mr. O'Benne, That to not profits You, in every case. Here are the figures —

g1 6 1

Mr. O'Calloghon's Fares. 5 Winter calvers averaged ... 836 gallons such, leaving a profit of £4 6 2 678 do. Difference 1/8 per cos Mr. Wolfe's Farm. 5 Wipter calvers averaged £5 17 0 709 gallone each, leaving a profit of & Spring do. 683 97 per oder

... #2 0 10

4 Winter outvers averaged

Co. Twose (Lickey)

Difference

5 Window calvers 650 gallons. 5 Spring culvers ... 472 180

The Clausialty experiments were carried out for

Mr. Watson, Dandsweld.

4 Spring

there peres, and we worked it out from that, that has out of a graining at pulses of wift at the year round and a prolineary at pulses of wift at the year round and the period of the pulses of the p

3511. And with a resonants processory or a support of the control And with a reasonable presentage for deprecia-

senson would be higher than that which was produced Loncrick in the securer street.
Mr. O'Bans.—I am greing the average price, which Is 44.6. Wittstee.—The average pince of the winter milk, in the Co. Cork, taken from the createry prices, was 48th.; the results of these experiments are hand on that prior. The summer price was 4.60. Take the ASSA; the results of these experiments are least on that prine. The summer price was 4.64. That the North of Iroland experiments; they were based on the same figures. In the Co. Tyrone stee the milk was least on the excessory prines. 1984, Mr. O'Blisso-Fou had down semewhere in your existing that a over should give 369 spilings or our existing that a over should give 369 spiling or many ages 1.45. If they give less winter production

5515. I exce to the conclusion that my average per 3343. I elize to use constraint that my average pro-duction was not high enough to make it pay, and I worked it out that it could be made positioble if I got as Average yield per one of 660 gallone. I am gird to have my expenseop confirmed by you.

to have day expurience confirmed by you.

"The Chambas."—Bit you then with the assumption
that you were going to have writter delyings, and were
your cover maded with a year of calking for the prodesign of winter milit? Mr. Gooden has shown that
the proper point of the production of winter milit. Mr. Gooden has shown that
the production of winter milit. Mr. Gooden has shown that
the production of winter milit. The confirmation of winter milit.

It is a series of the production of the production. In
stating year winter delying did you start on the
hours?

one; Mr. O'Brazze.—I did. The Createrns.—I throught you only did it at on the condition of the

T66 gallons. Cost of producing was 4d T66 do. do. do. 42 T804 do. do. 44 Average price of mills at local creamery. Loui,

Profit, per cow, \_\_ £8

yoold. 5.550 4.78d.

84 per corr ...

183

DOWN.

291

found that my average yield per cow was not high enough to make winter dairying pay—that to make it pay at the price I could get in Limetick would require

pay at the prior a count get an accessial would require a yield of over 600 gallens per cow; but what I thought would make up for it was that the winter calves were, which makes up no 20 was mad the winder careta were, redshirely speaking, worth so much more. My heed was suffering greatly at the time from salf mortality. I remember in one year I had leverity makes wrater I remember in one year I had leverity makes wrater I would differ miss from I would. Of safety core

878 gallons each, leaving a profit of 791 do. do.

that were calving in the spring only ten of the colven datrying.

In the results that I have given I have starn solving into consideration but the question of the sulls. If you take man consideration the calves,

folk. What is the cost of insuring such miles over "We take it at 6 per cent. We were securing that the costs were worth £20. As a matter of fact, they meet not immed; that was only put in the purposes of calculation. Deprecasion was fixed at the autor rets— for even of the way of the into account the first them figures were declared.

539). If you take a three years' old onw, and goe a couple of onlyes cut of her, you will sell her as a higher price thus when you started?—You. 8821. Prof. Mirraw, Of course, the depreciation

SQL 1-904 Mercus. Of cases, the depending overall be greater as the case of an old for short in a recovery of the case of the

and the cost of keeping the cow when dry, is would be decadedly in favour of water dairying. 5516. Lady Evenian.-Do you not think the calva-SHE, Long Evenium—10 500 for time to current world be helder—Yen, they will realize more money. The experiments in Cork show that the Revember outros feave a profit, and that those that are born during the spring amounts here a lose. They do not The CHARMAN.—I think the factor which operates

most powerfully of all is that the period of instation is protended. You got a six weeks larger miking 5517. Lady Everatra.—You spoke of insurance, Mr. Cordon?—You. 5GR. What is the cost of inversag each miles cow? We take it at 5 per cent. We were assuming that is cown were worth \$20. As a matter of fact, they

5519. Mr. O'Benra. You consider a necessary to write down the value of the coset. Yes, if you did not know the price yes could not tall whether there was a profit or a loss at the col of the year.

Mr. Janus Scorr Guspoy.—27th Jensery, 1912.

pare unes se the Scheme of Laterveice in Districmandage, This admires has been reported in the BOM3, when one Committee todayed & In 1912.1, 1904, when one Committee todayed & In 1912.1, 1904, when the Committee todayed is not completely an experiment of the Committee of the Latervine group, and be loosed in the Committee of Latervine group, and the Committee of the characteristic of the Committee of the Committee of the state of profits when the Committee of the Committee of 1914, point Committee of the Committee of the Committee of 1914, point Committee of the Committee of the Committee of the 1914, point Committee of the Committee of the Committee of the 1914, point Committee of the Committee of the Committee of the 1914, point Committee of the Committee of the Committee of the 1914, point Committee of the Committee of the Committee of the 1914 of the Committee of the Committee of the Committee of the 1914 of the Committee of the Committee of the Committee of the Committee of the 1914 of the Committee of t 2021, John Sevanan—I have proteed expression and the first field f

Counting need Provences	1900.	1913.	1964.	1905.	1906.	1997.	1906,	1909.	1910.	1911.
Latract	67,060	66,424	66,330	68,109	(6.29)	79,236	67,530	68,748	60,000	66,200
America'	31,795	\$1,349	31,900	31,873	\$1,342	88,687	31,859		32,348	35,19
Declare a			11,875	11,517	11,357					
Samo*	49,253	47,397	17,510	63,244	15,165	49,755	00,999	49,207	43,454	49,19
lazy"	\$8,164	57,569	17,311	57,115	07,491	35,550	00,233	18,749		
lock*	151,519	189,941	189,399		110,005					
Poncas/1				65.180						
Downt	55,512	54,195	51,885	53,992	53,504	56,607	64,756	50,265	54,729	51.64
Dubling	17,107	16,815	17,478	15,925	17,796	15,456	19,303	17,793		
Fernmack! -	43,986	43,173	93,600	39,730	40,113	42,511	42,392	40,931	41,751	
		47,995	47,240							32.50
Kerry <sup>4</sup>	114,188	111.432	111,502	111,731	111.253	113,529	117,738	114,829	117,996	
Eddors*	12,556	15,412	13,260	13,555	13,700		16,338			
										42.37
Klee's		16.027			17,799	18,908		20,155	21,244	21.23
			27,406	34,204	36,737	29,239	38,913	30,568	37,042	37,09
Libertick*	395,355	104,009	104,171	102,063	100,094					
Londonden 1 *				41,993						27,7%
Longlori*	17,244		17.114				17,507	17,065	17,134	17,33
						11,774	11,950	11,235	11,309	11,80
	60,048	29,758	59,653	23,450	58,425					
Month*										
	31,967	32.043	32.511		31.656	55,922	34,075	32,538	33,455	33,74
	20,158	20,371	20,565	20,145	20,596	23,217	23,828	23,067	23,828	24,51
	35,810	36,101	34,558	35,349	35,218	37,712	31,973	35,650	36,827	37,78
Nigo*					32,606			32,473	33,795	33,85
Tipperso*				92,547	92,159	93,971	56,555	38,240	97,211	16,23
	72,615	79,624	99,561	09,329	(0.50)	71,682	71,432	68,597	03,715	68,21
Waterfeed*	99,256	40,081	39,748	39,643	40,211	49,486	41,920	42,654	61,305	41,22
	15,200	15,222	15,221	15,308	15,350	17,743	17,726	15,373	18,743	19,12
		25,790		35,383		38,483	39,560	38,434	38,266	37,85
Wetgion!	21,393	21,429	28,170	22,116	35,564	23,116	22,865	52,423	22,702	21,97
Lauseren .	224,187	233,596	258,191	231,055	235,275	260,820	267,691	261,310	261,961	265,82
MUSEUM	600,274	394,668	394,166	390,154	596,235	613,411	439,551	627,169	605,801	623,49
Carro -	650,837	453,300	400,576	449,514	450,443	466,230	461,763	443,213	416,144	445,65
CONSASCION	215,439	234,049	212,606	\$11,311	211,528	222,093	224,137	217,335	523,638	227,23
Total,	1,410,117	1.495,179	1,497,647	1,417,054	1,495,554	1.561,463	1,046,405	1,545,026	1,537,581	1,865,41

\* Denotes facetare.

† Depotes decrease.

1 Depotes a fairly steady number-

There is only one puts that I would his to after to a contraction with ordern counties such as Cher, Gulvay, Mayo—that the number of multich cowe his increased presily. The onse that I have marked where that has been an arcress or marked where the been an arcress or the company of the contract of the

considerable—for instance, Gulvay, Clare, May o and Karry.

5008, The Chamana—I can quite understand that the development of the Entire Commonwess' work, degree, be responsible for the instrument thrusty—for degree, be responsible for the instrument thrusty—for I high this certainty would have a discont effect. On I talked also the increase in due to the field shot the proper of the certainty would have a discont effect. profound store has been obsermedly high, except for 1911, and I think that has undered the people to help more milk cover for broading.

5004. The encounts conditions and the division of the land and the increase in the number of humanitaries. I now come to the good scheme. The Department have not jobt sight of the quantum of the

ten. I now edoes to the good defector. The Department properties of the partment of the properties of the partment of the properties of the partment of the properties of the pretary between the pretary the pre-partment of the properties of the protary of the pre-partment of the properties of the partment of the properties of the properties of the properties of the native head, the case as an improvement on the helder It will take some time before the Department on processors upon the results of these experiments. Engrovement of goals, owing to the lack of public interest in this azimal, and the difficulty of admini-tration and organization. The Counties of Aberdoon has, however, in connection with the Wamen's Matienal

 A country to be fremed of persons interested in gusts, with this object of eliminating interest canneged and broaders and in improving the break of goats. 2. Local associations to be cutablished in rural districts where goats are kept, these to be organised that the organised chiefs through the Wenner's National Health Associa-

3. The Department to purchase reals spate of the applicants, who will take proper care of them, them with mative roots, and keep a roomyl of

4. The Department to purchase a limited number of female goats, of improved beseds, and to sell at a slightly reduced prior to aelected persons, who will undertake to carry out experiments in the mixing and brooting of goats of good tolking qualities, in order to supply nanocations with well-bred male grate. 5. To encourage classes for goals at local shows, where such are held, and to establish goat shows in districts where these are no agriculture shows. The 6. The local associations to arrange for the register-The rocal associations to arriage are un representation of goals by means of local inspections, for the adjudication at shows, the keeping of records, etc.

light goats give milk for only five or six months extension of the malicing period of the resulting family-togony, so compared with the Irish goal. At the some time a gent dual could be dens to improve the some time a gent dual could be dens to improve the maliting party whething and requisiting the new intrinsic party whething and required the party preserving thrus family progrey, and maning those with a male from a pool resilican parting up to ace justed as a good malitary, some of them garting up to ace justed and pool and the progrey of the progrey of the source of the progrey of the progrey of the progrey of the analysis of the reversal manifest. They see since bordy, and need comparatively little care or hand bardy, and need comparative; usue to be feed feeding. Foreign goals are much softer, require constant care and hand-deeding, and will not stand hardship or exposure in the same way as the Insh-

costs Lady Evenues.—Has the Department been ble to procure any goets, are the ports open yet?

5296. The goats are not able to come as  $2-N_{\rm O}$ 3927, Mr. Cauresza, ... They are mostly to be got in the districts that are closed? ... Yes. Separated Mill. ... Separated milk is not a redibbilized fixed. In the process of appearators meanly all the first in removed from the milk, and addressly it contains all the other coordinates, it is not by their eapsile of properly overalizing years annuals. It, however, it is used in the other containing principles and properly overalizing years annuals. It, however, it is used in the containing years and the property overalizing in the proceedings of the containing the property of the process of the proces food. In the

Gosi. Skorn Separated Buttermilk, milk, milk, 87,50 86.30 89.85 99.50 90.10 Post - 3.50 4.50 .10 7.00 Alksonmorels . 3.50 4.10 4.00 8.60 3.50 Sugar 5.00 5,00 4.60 .00 .80 100 100

.80

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analysis of different kinds of polk -

My. Janes Score Conson.-27th January, 1918. The following foods are fairly rich in fat, and can be used prediably with accepted milk for young 36 per cent. cil.

do. Outmeal ... do. Rice meal ... Experiments carried out by the Department over a

committedly resred on acpetated nulk, in contraction freding of page with separated milk, and thus experiments show that when note realizes 48s. 3d per cwt., separated milk is worth 2d, per gallon; and when neck a selfine at 40a, at will return 1d, nor galled for separated milk. There has been as wide a series of consumments carried out in connection with

eight years. \$256. Mr. CANDRILL—And the whole great to shape that separated milk is an ancellar freel, provided you supply a certain sercern of test—Yes. \$529. That it contains all the properties necessary for the formation of blood, flush, and muscleb—Yes. Perl, Murras.—Cuby the fat is tumored, \$539. Mr. CANDRILL—Mad you do not agree with 5226. Mr. CANDERLE .-- And the whole gone to show

these who are depreciating separated mile as a food? Prof. Marran,—It has been shown that separated malk, plus imused, is as good a feed as whole milk, od, of comme, more economical.

5681 Mr. O'Burne.—You do not mention cod live

5081. Mr. O'BRIER — res do not mecanos obs aver ol as an addition to the separated milk 3—Me. Cel liver oil can be used, but is depende entirely on the prior. In the first stages of the experiments cerried out by the Department it was used, but the prior beams productive, son we cented to use it.

5571. Hr. Canwart.—And those was great difficulty
in prossing pure ood lives cd?—Yes. I now come
to the question of the milk supply for labources, etc.
There is no doubt that in many districts labources have a difficulty in procuring a constant anguly of mile. daleying, our countly winter durying, is carried on Throughout the preser part of Ireland milk is source during the meeths of Documber, January, Petrasary, and the beginning of Murch; and even small farmers,

and the beginning of Muchi; and even must beneau, and the beginning of Muchi; and even must be made of the court is a frequently without malk dusing those meanine. This arcentice of certificing by Hual Enteres Coursalls bus; I consider, and of the Mesoure to present a regular step during the first himself to the court of present a regular step during the described as belonging to them. Interest parks were permanently couplesed by the same furnary that the proposite court, and those who the employed to may year by such, and those who the employed to the proposite court, or by the words. In cases where the court of the cour tables a paternal interest in his welfare. As a rule, when a cocupying a cottage belonging to the farmer such tables to be former, the laborary reading his wages partly in each are partly in his decreasing to the farmer, and the laborary reading his wages partly in each are partly in hird. A small quantity of mile is frequently welfared. partly in kind. A small quantity of milk is frequently matched as a perquisite. The fermer is prepared to sell kine milk, or be is, in some instances, allered the gross of a cove. The labourer living in a Sumi District Council collage, however, often finds is difficult to procure a supply of milk. He may be constantly

rooms a supply of milk. He may be constantly mployed by the one farmer, but as be is usually free employed by the one namer, but as he is unterly re-the work for when he pleases, and he frequently only employed temporestly by different termin, there is no one farmer on whom he can depend for a supply of milk. In a few counties, via. Toppersay, theremine and filips, a number of creasury proprietors have made accompanions to supply milk to inhoraces if they always willing to comply with these confilient. Where treascomes are established it is usually difficult to get

retrievables are established as it is usually efficial to get uttraville, but reparated milk can be provuted at from it. to lid, per gallon. On the other hand, where 100 no deleying is exceed on, and whole milk is oburned. there is a good supply of bottermilk and a considerable there is a good supply of bottermits soft a consistential demand control for this product, at prices verying from 2d to 4d per gallon. In many of the grass districts labourser (under which booting I touches bards, etc.) are allowed to keep a cow, the grazing of which is given as a prequisits. Through the County Agivul-tueal Institutions and Butter Institutions I have made tees) Instructors and nature permanent I have make inquiries as to where there is a searcity of milk, etc., in their remodifies combine. Briefly, the information surplied may be remmarised as follows:

1. Where there is little delaying, and comparatively title tillage, milk is externity searce from Kovember to April in the graving districts, especially in such counties so Meath, Kildare, Carlow, Westmenth, and

 In counties where the holdings are small, and farmers keep from one to three nows, there is very little milk during the winter and spring mouths. This applier to such counties as Cavan, Monoghan, and the congressed areas. counties so Cavan, Leitrim, parts of

8. In the grees dairying districts in Cork and Limerick, where, as a role, the cows all calve in the spring, there is very field: milk during December, James and Polymay.

4. In some of the granny distance farmers have reduced the number of their cows, because of the difficulty they have in getting their servants to milk, and also because the granny of store cattle has in latter years (with the exception of 1911) paid well. d. In some districts farmers have refused to sell milk to labourers owing to the Dairies, Cowsheds and

5538, Mr. Wilson,—That is within the definite knowledge of the Department?—Yes. 5534, Mr. O'Bazze,—Obtained from their university

5186. The CRAMMAN.—Which of the economics sellseparated milk?—I campa give a definite reply; in those districts mentioned they do. There are a considerable number of instances where they sell separated milk to labouring men, but I cannot say generally that that is the case.

\$596. Because it has been repretented to the Com-mission that one of the reasons for singling the milk to the creamery is the return of the separated if the separated milk is reparted so took a prime necessity to the farmer, where would the separated milk for sale come from. It has been represented to the if they have calves or pigo they are depending if they have ealers or pigs they are depending to a very greet clarest on the experience office as part of the food, but I do not wish to say then the farmers would be welling to spare a few polices of experienced office. 4857, Mr. OBIREN.—Do you mean to say then they would allow the creanery to retain 115—Not unless there as an extraordinal to the contract of the

5298. In the case of cooperative creameries, which only buy for the bestier ist, would the people buy the capacitod milk from the creamery and not from farmars?—I cannot say, but the Department has unformation that in a certain number of districts. separated milk can be bought at a penny a gallon from

5000. In County Limensk, where there are notice forty encounting organization there are a horse worship of progretary treasurers, and a good namy of these still buy the whole milk, and they would sell the expected milk, so that in a County live Linerick the Department's instruction might say that the milk was bought from the ereamery without eleting whether the creamery was co-operative or propriorary?-That is exactly what did bappen. The Instruction did not state whether the creameries were co-operative or

opriotary. 5840. Mt. Witsox.—We had evidence regarding the femal of some creameries to sell milk. The formers' 3540, 311, William or so sell milk. The furners' committee refuse to ellew milk to be said from certain committee terms to show mink to be said to the committee of the like you ever come seroes a case like that?—I know of no such case. The Department have criticae that in three counties a good many conserved are willing to sail milk to labourers fiving in the volunty of the ereamery.

S501. The wilness who gave orideous to the effect that the farmers' committee chicoted to the sale of the season yesterday, and I was oursees to know whether you could suggest a reason?—I have so information of that sort. 5562. At any rate, there is nothing in the creamer principle, either co-spective or proprietry, to prevent the separated or whole milk hon being averlable for the supplied or white min from being sold in that way to many metances.—It is. Eveny person who supplies with to a recurrency comes under the Daines and Millshops Order as a purvoyer. Those who do not-those who make botter at home-do not come not—those who make hotter in 10000—40 fit come under the Order, but if they supply in small quantities they come under the Order. The difficulty of supplying into come unser the Order. The amening of supplying inhousers with null might be remedied in one or more

Arranging with farmers in certain districts to sell milk to inhousers et a fixed price, on condition that the inhousers come or send regularly for the milk, take n constant supply, and pay in each. To this plot, bowever, I recognize that there are several objections. The former objects to having the wires and children of laboures coming to his house at all hours to supplies, with the consequent dislatention of his demostic airregements. A still greater obtach in the respect is the fact that the sale of milk, no matter respons in this most thin is also or min; no make her mail the quantity, would at once bring the farmer within the scope of the Dairies, Counheles and Mills shops Order. He would object to be required to subject to inspection by the officers of the local subern's 6c inspections by the officers of the heat authorities, and to exceptly with the numerous regula-tions of the Coder, which might possibly call for extensive alterations, etc., to his form offices. Of course, farmers who supply milk to a creamery see included coder the Order as purvoyers of milk, so the foregoing chyselien would be related only by those

furgions who carry on bones delaying.

2. If might not be difficult to arrange for an extra-sion of the system by which recurrences supply mile to belowers, as is shready being done in parts of Counties Thyperary, Limerick and Sign.

6043. The Countesx—Lo there any definite plan wheely that is done?—So. I think it is an arrangefarmers who earry on bome dairying. round come to with the excamerics to supply these

people.
5344. Is it universally practiced?—Well, I think where one creamery started the others followed, either where one creamery started the others followed, in the altahning district, but it as not universal even in the counties I have mentioned. It seems to be confined to cortain do ricts, so far as I can obtain information 5545. One reason why I was auxious to lessor this the difficulty with regard to the milk supply must be considerably diminished in these places, and onless

considerably diminished in these places, and embedded the estimations were not working contanguately in the estimation were not working contanguately in the part of the end of 5646. Mr. CANTERLE.—And st is only where in the variety of the creamery there is a village population that is a perfectly practicable scheme?—Yes.

Prol. MERTAR.—And there must be a constance of

semand.
1647. Mr. O'Bury...Many of these labourers keep a goat, especially where they have Union cottages, and just at the time when the famous would be roost reads

to sell, having a large supply of mile, that is the time when the labourer says, "I do not want your milk; to still, having a large supply of mile, that is the time when this loberance soys, "I do not want your milk; I will not toke say mills from you at this price, as I do not want by," and he will try to go the in the winton when his goal is dry said he weaks mills again?—"The dis or extraintly the sace. The Bish goals will be proposed to the property of the months of Appli up to the property of th begins—on a rate, the meeting among a control to on-ind doing that these most farmore hare an obsenhence of milk, and I think that the difficulty is to be get over by gotting goes that will still time or ear mouths, and this can only be done by the introduction of freeign break. The difficulty is the control of the cont short spectrag domestic arrangements in a farmer's house could be overcome if the inburgers would comto his piece for their mile about the seme time; but of they come at different house the approxime of attend my to them would be so great that m the majority or boundholds the fernces would refuse to supply the milk through the creameries was not able to suggest

O'Respe.-- I know that in any own case when meet together, and they have such hitter torques and mean registers; and they have soon arrect torquist still give each other a good deel of abuse. The street quarrel and go home and mag at their busheniss until they get them into the quarrel. I have known a case of a labourer going for another with a knife, and a

Personally, I do not see any reason why he should not be trobaded

SEED, Mr. Campuna.—As a butter makes?—You 265. But do you see any great objection to their being included as reflers of sulft to labourers\*—In the English Ooder fearures are olived to requit labourers or their own neighbours, and are exempt pre-vised day are not regules purveyes of onlik. 5458. The Causeuss.—This overspilion obviously ones. The CHARMAN,—This exemption obviously makes that the differelty was also left there?—Yes, \$553, And that it led to a restriction of the supply of mile?—Yes.

of mility—Yee, \$554. Mr. Gentrell.—From the point of view of pure milk, is st act time as unperture that the farmer who keep is couple of owns for line linears; should be imposed?—Yes, quite as unperture. \$555. Bot forum the point of view of supplying the asset, non-risk the parts of view of suppoying the blooseer with milk as a food, does the Onler go too far in asking the farmer to have the some facilities for milk protocion that the man has who supplies milk to a creamery or city—do you follow my point?—Not

otto. You see, a farmer who is supplying sulk to a city bus, of course, to set up a proper establishment, but you cannot expect a famou who is a feeder to have the same farilities for two or thace cover which

is purper any space.

1467. But there are no regulations had down for the inspectors.—No, it is left extendy to their own jodgment. agrance. 1858. And some of these are street and some our

very lax?-That may happen. One imported may have more utinique explaination from maniform. That is the pass difficulty in the custings out of the chaffer. Sold, Lafy Newson.—Let will received it the Chaffer. Sold, Lafy Newson.—Let will received it. The Chaffer of the Chaffer, and he said the chaffer of the Ch

Miss McNaux .- Apparently there was no case suited The Courteax—In my distatet there are people selling milk who do not register, and it is well-known to the officer in the district that they rell milk. It is tile known to others boding selementarire positions in the County, but they say, "If we industrie we will in the County, but they say, "if we interfere we will cut off the milk supply."

Prof. Murray.—And to easily it to the logical con-

Prof. Mrrraw.-Do you not thusk that the condition

Mr. Correct. - In the case of fifty you to turn more expensive appliances. Prof. Mirran.-The conditions under which a market ow is kept should be as good at the conditions under which fifty are kept.

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infloadity of farmers refusing to supply their labourers?

—Not to include them as nerverous of milk, and state NOS. Mr. Camruna. —There would be a great difficulty in drawing the line, beause people in the city night be your neighbours?—These has been no-difficulty in England. 5565. The Channes -Further conditions could be kind down with regard to the number of soun kept. Mr. Camretta. Something of that kind, as a

Wiracau.-In England there is a specific clause in

the Act exempting furners who supply their own labourous or neighbours with milk, and I may say also,

the present moment in freining who have refused to supply inhousers because they felt that they would come under the Order. 6590. Mr. Winsay.—From the point of view of federing luberculosis, rt is obvious that in these small with you leave that point over until I come to deal with the question of toberoulous?

Mr. Wilson.—Certainly. 5501. Peof. Marray.—How can we get over this

matter of fart, will have to be done. I myself net a guathernor in County Dublin last Sunday. He keeps an establishment and a number of cows. He used preciously to give away his separated milk, and he said he would not take any further risk about sepplying

Lady Rymann.—I mised seen fastery guit how they got the colls, and nearly veryous of them told in this in concept mised, we report of them told in this in concept mile. In one trailiy of the three would not only could not got any mile, and that the cow had easy could not got any mile, and that the cow had easy to all a laked the woman of the hause what the Werness.-In certain dortriots inhousers might co-

scrate and take a field of grass for the season, on which they outdi grass their cover in common, as it would not be possible for them to keep a cow on their helf-fore or sere piots. Louis for the purchase of cow might be given through oreits receiving, if the labourers movers, he increases to have a system or maintee in such cases. I may my that a scheme similar to then as in sound operation at the village of Son Mills, in County Tyoms, which emissis of 20 houses, with a population of 1,200. The village belongs to the are either employed in the still or on the farm attached to Se bull. The samuals are grased on mature in

week for the summer grass. Those ato oas cos mentioned do not give sufficient colls to supply all the Fernance in the psychouthood also lings with milk. Quite recently I was homeholders. Formers to the preparations now supply the village with milk. Quite recently I was tald that the owners of this mill were perpared to put 5364. The CHARGEAN, You have those a very centralised population?-Yes,

5565. And the difficulty of dealing with most districts

5366, Lady Evenuer.—Do these people in Som Mills feed in wanter?—In this dioulet there is no difficulty. They can buy hay and straw. The owners of the cown

way the castle are provided with roots 0007. Mr. Casswant,-Cows will malk in winter wishout roots?--Yes

(60%, Hords are use an absolute moreosity?—No, but the cores will milk much better on social or semeriting are cores will milk much better on social or semeriting 1600. Lindy beauty.—Here you beard of Father Bany's scheme?—I only sow at monitated in the assegance, and the expect was so beind that it was

against, that the styled what as costs that we are a similar to the style of the s

subtrem is in actual operation.

2071. Mr. O'Bearty.—How dril the people in that
subtree arranges about the militaing of the sours?—The
oraces militain the coats.—The coats are thought into
the house to be milited in the North of Ireland.

2072. The owness of those cover shift not double highler
than the coats of the cover shift not double highler
than the coats of the cover shift of coats.—No. Mr. of
each tool or the coats of the coats of coats.—No. Mr. of
each tool a contact for coats are recogniting;
each tool a premate large.

each has a separate byre

Note. See Stream: Woommon.—Has ever family
a one safe.—Xo, those are twenty-seven cows. But
the number of cows is sheaffly increasing.

NOTE. Are there a number of landline supplied by one

our 5—This is obrious, I think. A family will have more milk than they require, and will sell the balance to their neighbours. One con would supply those or four families.

50%, Mr. Cowrest.—Meeting on if the passages that the bloomer should cooperate as the a field of great, certain proposal in expected and the passages of the passages of the passages will force the garrent grantless through the fafara and corp on durying said rapply the inhabitories have been passaged to the passages of the contages and the passages of the thing of the the farm, but that they may be preduced in the farm has the far may be preduced as a fundaming of the passages of the passages of the passages of approximate the farm saided in held to relutionly offenaring the passages of the passages of the passages of the saided in the passages of the passages of the passages of the saided to the passages of the passages of the passages of the said of the passages of the passages of the passages of the saided to the passages of the passages of the passages of the saided the passages of t

You meen the formers doing that?

5576. In the fact two cases it has been suggested that the local authority thould do it, and the third suggestion is that it should be done by a redundant

body?—Yes only in one ones with supported that of 2077. But only in one ones with supported that of 2077. But of which farm, I should have your sines with regard to three proposals. The first is with regard to the faced sechetly indigs at least mixed supports mill us the inverseposals—yes might sail it manifolds there would be unished for first theorem and willings.—The great difficulty I see no consection with that would be appeared to the property of the property of the supposals would have to be lossed by the relate, and I.

be the question of management, and appearently the appears would have to be home by the rates, and I think the cost of assumetanton would be considerable. 6578. Do you think it would be self-supporting?— My experience of facroing corned out by any social body, not only in fictand, but throughout the Bettell bles, is that commercially there is no profit.

Iden: is that sommerceally free in to profit.

Iden: is that sommerceally free in the profit of the proposable - The space action. I talk in all probability the body conserved has a very shiply layer, respectively. The profit of the probability is been proposed to be it to a messager. The notion of the body could not give their branch probability of the body could not give their branch probability of the branch probability of the branch probability of the sommerce of the solution of the branch probability o

A390. How would you regard a voluntary body. There is a difficulty there. The success of the selection will longery depend on the notivities or certifican of once two members. If they are removed from the darroot the probability is that the whole thing will college. That is what I fear in regard to the voluntaries.

SSEL Of these three schemms, would you be more in the Coirelated is favour the best \*-I would be most inclined attached,

attached,

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to focus the relationsy leady, because it would be donin that ease for lower of the wark. The prevents below up that would be outbuilded, I imagine, in our, a relative property of the second of the conservation of the control of the polyer terrories, and the Carrier of the control of the other polyer terrories, and the control of the control of the Jack The Carriers—In all polyerity the popular dring good to the regulatorshood, would be generally person of sonant and fatines, and they would not channe be at heavy, and the result would be they also the control of the

Sing god in the resilience and vanil is greenly provided in many continues, and they would not provide it may be sufficient to the continue spread of absence things created being continued and an extended of the continued of the continued of the continues who continues with expected bodies. In the case of a confined provided of the continues with expected bodies. In the case of a confined provided of the continues of the continues with expected bodies. In the case of a confined with the continues of the continu

350. Mr. Wilson-Dil yes also universited the regretion "childre, la formation, la fore

on a mail bettering were units in one freighboritheout of a small foreign or village, that if in farmer could see his way to get a reasonable price smâ a contraurant decreased there would be no difficulty in getting the milk.

6398. Prof. Moversus—It is the constant demand that is at the bottom of the whole difficulty—Xee.

6399. Mr. Courseux—Or course. a continuous

demand, as we were shown by Dr. Boedcheker, can be created.

Mr. O'Burn:—His evidence was in reference to a small town—Bitr.

Wersam.—I have density doth with the openions of producing the many of the "Barboran in confirmation of the producing the state of the

1. To test the subscribty of televration as a modele of disgussing subscribinal is eathly.
2. To examine the milk of salmals that resided to the test in order to ascertain what precentage of the animals give milk containing tuboric hoofits.
3. To find out whether, by the extensel appearance and by tendeptation of the order, it is possible to determine if the order is therefore.

no of one and by introphations of the video, it is possible to men the districtment of the unideo is tobercolorus.

A To associate the direct less that farmers would be video.

It is not been in cleaning their bords of all nameds to recover the control of the control of the control of the less more than the control of t probably conducted in

an agracultural school for boys. Each school had a herd of darry cottle; one herd screamed of 54 and the other of 17 cores. The Committee decaded to test the heeds and to slaughter all assumals which swarted to

The results of the tests were as follows -At Dury At Agl. Total School School. Number which shd not react . Number which reacted .

Number of doubtful cases -

38 The doubtful annuals were again tested in a month after the fees test, and three out of four reacted. The each case the charace was quite easily detected. Sumples of the rolls from all the minus's which re-

saried and were giving milk were sould an anseroscoptical executation to Dr. Delégons, Professor of Publishings and Banteriology to the University, Manchestor. In adultion to examining the milk microscoptically for and handerbooky is the Convening alternations. In addition to examining the milk intercooperally for tebroic bucilt, Dr. Delejano sho mecalated gumen-pgs with each cov's andit. He found tobards in one case only. The animals inoculated with this cow's null field at five days. 5500. Prof. Merran, .-But they would not die from tubercofosis?--I only know that it was stated in the report that they died in five days.

3591. No gursos-pig would develop tabercolous in five days, and if their died in five days they died from The says, and if they died in five days they died from sconething clos—as a result of this investigation is was found that in two heris ecceptizing a total of 71 estite, one cow's milk contained tribrade basilli—a percentage of 1.3. The utders of all the reacting cores to be tuberrulous; all the others, so far as manapole the could determine, were marrily free. The post-merem exemutation of the industrial older showed no appearance of inheritations. It was, however, found to contain two large hydrid cysts. The udder of the converted gave inheritation milk showed no ugu of disease, as far as could be determined by manipulations. openes, so his no coun os extremible by manaparance. In the pool morters enumentation no taberculous leakes could be discovered by means of the noted ear, but when the adder was submitted to Dr. Delepton for microscopical examination, be found distinct ordered witerosopiesi exercination, he found circinate ordaneae of the disease. These experiments showed that — (1) The twisterolim tost was reliable in 38 per cost, of cases. In the incubation period of the disease, and when it is extensively generated, the interestin test was not so accurate. (2) Mantipulation of the udder was not so accurate. (3) Mantipulation of the udder was not be also relied upon an detecting teleproduce that the contraction of th adden. 10) at was unconnectly wrong so suppose the milk from a ook having no approximate of a distance edder is perfectly fron from toborcle barilla. (4) The eaker is pericelly free from tobortel hardle. (4) The only centain was of persons that the milt is free from tubers hardly was to have it hardered specially examined, along with the more time and as-namental purchased for the two break after the anneals purchased for the two break after the appearance were bength recipied to their passing the tubercedin test, and outing the year 1990 (1990) thirty-constitution to the property of tuberced to the property of one assimels were tested, of which eight reacted, a percentage of twenty-six. The careases of all the

percentage of recurry-sec. He succeeded with tuber-caternals strengthered, adherent affected with tuber-ralistis, were declared fit for human food, offer having been extended by three experie. The total loss on to-entry scitizals was \$140, or an average loss of \$7 per head. Of course, in this care meny of the animals were in full mile, and were thin, and radiaed very small prices. If furners had enforced becamp accom-modified to include affected minimals, and if those solutation not in the leaf, stage of the allocate were gradually factored and disposed of, the loss in obvering break would be compatibility mast. breite would be compountered man.

These experiments were carried out cleves or twelve, years upo, and these were also other experiments canned out by Dr. Dekleine and Dr. Nireks, who have

priority sorthwol mee repriments in enterelling the interesting of the other of our to any other continuous and the interesting of the other of our to the other of our to the other of the other of the other other out of the long. Constitution of the other other out of the other other out of the other other out of the other out

Mr. Jours Scory Gospox -- 27

communicate in come

were tobercolous. From this and other observations of was concluded that veterinary electronics do not coffee alone to determine whether an under is tubercolors, and our solventing waters amply confirms
the conclusion. "That the milk might be
affected by the persence in the row of a generalized
tuberankais without the solder being affected. This fection of the udder would have storted. On the other

clinical examination." ... "I am prepared to accept the constraion that the udder may be in a pethological condition, not to be discovered merely by manipulation, but quite adequate to produce in the min inge compen of festile. As a result of following up 47 tuberculous milks he (the V.S.) has found udden fifteen assistance tuberculous utilities have not bern-freen assistance tuberculous utilities have not bern-freed. In one instance the result has not yet been-determented." Dr. Delegins status that "In all causes as which tubercule health had been discoursed in the of which takens taken has seen discourse in the milk the mammary lymphatic gland was found taken-ralous, and in all cases but case I have found some takenshow losion of the mammalry gland itself." out forty tuberculous udders. On the other band, some twenty uddees which had not yet yielded tube-culous milk, although the cows were luberculous, have

tuberegloss lessons."
The Boyal Commission on Tuberendous carried out as experiment with act cows which were all affected with betverstoon. Three of these naturals aboved dewith telecorations, name or toose names asserts as cided ellinical signs of the discuss. The remaining three were apparently healthy manuals, but gave posi-tive reactions when the tuberculan test was applied. the disease, tuherale bacelli were found, but more in the milk of the other core. None of the coun showed the milk of the ones cove. Note of the rows snowed dutiese of the udder dering life, and although the udders were coverally examined after the animals were one in which a quester of the udder showed four small nodules, which could not possibly have been detected during life. These three sets of experiments seem to prove conclusively that to depend upon climical examiration of the udder would, in many instances, lead a

5992. Mr. Convert,-If I understand aught, the velenmary surgeon who certained that the milk is comparatively free from teherestoom because he found mething wrong by manipulation, might be only deserving the facine himself?—He may be quite 5592, That is rather serious, because if there was thing that we would hope for it would be this—that

we could get you have more our it could see some more we could get you have of the could get her, at any rate, out of the herd, and in that may no a long may fowards eleaning tuberculous out of the herd. You cannot do that by almand 5394. The CRUMMER.-This would weaken the claim

suspects who is constantly executing core for indurated surjects who is consistony exemining a conjunction with blass a backeriologus who will examine the milk, this referency surjects will in time and through expensions moles on examination,

Scorr Genesa.—The Jersony, 1912.

6003. Hr. General.—Too know what is called a "game" [3—Yas.

"game" [3—Yas.

"game "1—Yas.

"game "1—Yas.

"game "1—Yas.

"game "1—Yas.

"game "1—Yas.

"game "1—Yas.

"game" [3—Yas.

"game

park out bone amount antierup from betreuben ar show that me not." To my messecout, the samulstant thought had believelees users free from w. mi the satimate bat I designly were free from w. mi the satimate bat I designly were beh healthy cone were the satimate bat I designly were the healthy cone were those two herds.

1 but the satimate of the satimate may be to be to here professional ment—There was no lowtimate the satimate of the words, because the common were host proposal atten-

one in their two bands, and that was prevent after winds, between the corrector were now condemnals, with which the contract were now condemnals, and in in the first burg he thinks of \(^2\times\)-Thirecoloids, and in most assess its correct. The costs that we mainted from other discusses then toberealism are new the first all focus of the condemnals are new naight think them "pures" "\times\)-Ce, you might think the discuss was sping from their colors and the the satisfial was sping from their colors of the the satisfial was sping from their colors of the world he so regulated to have the same animal, the satisfial programment of the condemnals of the world he so regulated to the condemnals.

Internstated Openision on Bootie Tuberculest, appointed by the American Vederarum Medical Association, it was stated that by chainst examination, you might county mothet on minute offering from 15001. Mr. Winsow—I am neepfoled on this order of the County of the County

arouse that no one could mirtake?—I would my that dithere are a few.

model, I am derecking of open, severe historically and the series of the

an fav as my reading has grow, they have not yet discovered threading has grow, they have not yet discovered threading has grow, they have not yet will not say that this is no for 1911, for the figures are not cot, the first of the first thin saying for the other years, and I thin I are right in earlying for the hear years.

500, Frost, Mercus, —Xon would reject all cones with discounted others from the control of the pro-

helor years
5005. For. Mercay. You would reject all core
5005. For. Mercay. You would reject all core
with discussed olders from the milk supply3—No. I would not. My pound to that unless you want ascertain
the supply of the su

5006. Mr. Winses — You would go so far as through the first stop in the process of dealing with televitors in to have a system analogious to the Belland system's—Yes.
5007. And if you get a televirus sample, follow it up and you get to the byre'—Yes.
4000. And indeed on two to the byre gave the 4000.

3408. And find out which cow in the byte gave the tubercular sail and too ber through—Thost is sound. That is conselly the Machaster motival. 2002. I was given to some to stat. Dr. Delignon has designed that southed as the way of confineting tuberculoids—For any of the sail of the other system. of conforming the cross until he has fluctured and benefits begin the smaller. That is a relating the positions Large and the smaller control and the positions Large control, the tubercular test as a mass of charactering coverable and the control and the control control and the control and the control and the positions are smaller to the control and the control control and the control and the control and the vector and the control and the control and the vector and the control and the control and control and the co

the Orbital Engineering which the doubt update year, perhaps upon you give a now of that Mind's. I need have no heatings may go up a now of that Mind's. I need have no heatings made many no. Office, Prod. Marries.—There are other things that the heating that the perhaps the perhaps

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The transfer and the sary give the televirel isself of the Prof. Mirrar.—These gar it is again for some time. Prof. Mirrar.—These gar it is again for some time. The sary is made in the same property of the same property

cubiers.

9320. Mr. Witson.—The normal mathed when is
9320. Mr. Witson.—The normal mathed when is
9320. Mr. Witson.—The normal mathed when is
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Mr. Janus Scott Geroan,-27th Jonney, 1912

Witness.—It is the Manchester system.

5921. Mr. Caserman.—The farmer should not be subjected to both lenks. If one is thorough it covers the Ptof. Merron.—A combination of both methods MAIN MET US.—A constitution of low motions would be better. A person who is going to supply tills to a mainteparty shools inform the Madical Others of Health of the first, and then the Votefaury Singson could ownrone his look and give him a cartificated, When the milk as occurred as the day it is examinate. and if is the meantime that our last developed taker calons the authorities can rease up and feeth it out.
Witness.—Of course, if the owners of the own were

have them tested that would get over the differently 4 the Divigine system of having checks on the supply Mr. Cunrusta,—Reference was made to stree plied to a dairy herd greatly essists in determining narrado are giving talk containing the tobercle hamili. This ran only be done satisfactorily in a historicolomoul This fall only so now necessively to a nanassagana examination of the milk in conjunction with the in-oculation test. The application of the toberrolla test, the molation of infected aximals, and the distribution of the building, are not sufficient in themselves to alone hard of tuberculous. The healthy cottle which do reset of telegraphons. The heafter come when or reset should be kept in a theroughly clean, record, cows and cruse a number of them to react of terried again in six mouths. Without people become accommodation for the healthy armule in a heal and a separate building for isolating those animals which are takerculous, there is very little to be owined by are interculous, there is very little to be gained by using the toburculou seat. The difficulties of stamping out interculous in cattle in Letand are. I believe greater than in, say, for instance, the Mannaouer mine supply redies, because in the latter the helidings on farms are copeted by the landloods, and as a refe are rams are colonic by the summons, and so a run are roomy, wall lighted and well verificated, quite equal to the very best cowhouses to be found in Great Britain. In Ireland it is quite different. The majority of he more have had to creet their own farm buildings, and mere have had to crees their own name outstrage, and owney of these are entitier well viciliated nor well lighted, and do not give half the cubes air space usually prevented in linguist. Beades, many forcess have no space buildings for sociating diseased annuals. Accordsir space to be be generally necessary in England, and would, require the expenditure of more carried than copies the expectiture of more capeat than the ma-picity of firstly ferrein could possibly effect. On the other band, I must point out that on Irish forms the estitle are out in the open air to a much gener cutent these in England, and to this fast may be attributed

the relatively healthy condition of our stock and also, swing to this factor, less stringent conditions in repart to mr space see required in this country. I never new a "piner" until I went to England. we a "pray" until I went to Beginn!

6600 Prof. Marrass.—Bub you have seen them stree
or come hat?—Yes. I never our one till I went to
handuse. These is no death about the prevalence of Chartnic. There is no arent stores are prevalent when there. Portharmore, farmers complain that if they improve buildings or creek new buildings, their they improve buildings or event new buildings, their valuation is immediately raised, and they are based on their own improvements. I believe in the peat this the delarmed many farmers from executing new belief-ions detaured many farmers from executing new belief-ings. If the volustion were not increased for, say, five rears after the buildings were altered or executed. It would give the former time to realize that he was paining some advantage from his improvements

before he had to pay the moremed tex. I am perfectly certain that this has determed a great many perfectly certain that this has determed a great many farmers from improving their premium or crocking new bridfings, and if you take into consideration districts where the rates are actually from 10s. to 13s. in the f on the valuation, a framer will be slow to put up a byte, the valuation on which may be 42— and yet cannot have a very great byte with only that valuation—because he knows it will mean an increase in his textion. This has deterred many ternanthe rates are so high, and if there could be surrething suggest a great many more farmers would

e is a suggest in great many more narrants would rove their permises. he Chantsian—The County Counsils are always on 9024. Lady Evenue. But validation to the sale of milk may I read this letter—" With regard to the sale of may I read this letter— With region to the malk and cream in the U.S.A., the regulations are made and more exacting. The milk supply becoming more and more exacting. The milk supply is becoming standardised, graded in three classes, viz. —(1) Confide milks (8) Imagened milks (8) Partrarged milk. (I) Certified milk is milk from Particulated onth. (3) Certified milk is milk from tested sulmain, containing under 30,000 buntle per e.s., (2) This term is limited to ray milk from soon under victoring raspection, predicated under certain strengths appearance of the property of the fact of the property of the property of the fact of the property of the propert conting these againsts with inhermality, free of cost, at this owners are prepared to comply with certam con-ditions on the following lines—[1] Separate the seismant whate costs from those whoch are bouilties, house them in different buildings, not pasters them in different fields. (2) What the others at hirth from those stone which are interestion. (3) lines the calves on our state of the contraction of the show show which are thereadous. (ii) Barr its calves on mick which is engangly free, or it rendered free, on mick which is engangly free, or it is rendered free, and in the control of th

from those which are healthy.

5626. Prof. Murran.—That is Bang's method?—In Sept. Frof. HETEN.—Inst is string a section.—as is partly Baug's and Osierlay's. SEE. Str Strewart Wommerst.—It seems that most cows asive in October, November throughout Ireland—are these the chief months?—No: three are the months of the year when fewer cown calve. The majority calve in the spring months, calve. The majerity calve in the spring months, blanch, Apel and May. 5827. Do the core that calve in October, November and December give less milet.—No, more mill. The furness have an obes that the core that calve in the pring and are put out on grass will leave a beyon roofs than thou that calve in October, and also than

out all diseased animals should be removed

3028. So that it is an educational matter?-Yes, 5629. Mr. Corrents.—And the Cow Testing Associations are designed to being it home to the people. is what the Department are endoweding to matil into important?-Tes-

The Charman .- Thank you very much, Mr. Gordon,

The Commission then edjourned to the following Monday morning.

#### SIXTRENTH DAY .- MONDAY . 2978 JANUARY . 1912.

The Commissioners not at No. 5, Upper Castle Yord, Doblin.

Present:-P. J. O'NEILL, Esq. (Chairden); Lady Evenard; Miss Margaret McNeill; Sir STEWART WOODMOUSE, M.D.; GRORGE A. MOORREAD, Esq., P.R.C.S.I.; ALEC. WILSON, Esq.;

and DERMON O'BRIEN, Est.

S. W. STRANCE For. Secretory.

#### Mr. J. Banyn Dago, Dp. Ec., T.C.D., cusmined.

5630. The CRAMMAN.-You are Clerk of the Burnl 6646. For what reason do you suggest that he upplies for the withdrawed of his registration—se it to prive a your officer from impecting his permises?—I hold that SSO, The CHANNEL TON the CHAR OF the Burn District Council of Baltingless No. 12—Yes. 6631 In the dustings of your Salies you have be-come families with the provisions of the Dairies and

Mith-laps Others—Yes.

5838. Has the Order been put into operation as your
district.—Yes, in but we ridepted the old Duler of
78. The Order has for years been no operation.

5830. You had actually been making an impection
helice the xew Order earne late from t—Yes.

5854. Will you hadly stell the Commission what proto improved confituous regarding the housing of the attroduce on them?—It has.

by cow-keepers?—Ten, undoubtedly.

3848. And the moment they find it possible to break free from those restrictions they will do so?—Some of them will do so. vicin is made by your Council for putting this Order just operation?—We have in the Burn! District of into operation?—We have in the flame.

Bullinghas No. 1 two Bury Lapcolors.

Bullinghas No. 1 two Bury Lapcolors.

They were

them will 60 so. Settle it would be wise to put the Settle min operation generally in regard to all the people who produce milk?—I do. 5683. And they qualified mere No. They were Belleving Officers who were appended under the old yeopie who produce milk 3-4 do.
46G. And 5 only but before that if the Order was influentamentally administered throughout the entitle outract, this feeling that is enterthered soweris 18-40e dealer that seems to be manifested to evade this provision, must also out3-Ver, I think a compalincy rate is better than an optional one.
66G. Perhaps this is rather a difficult question for Order, and they were continued.

3636. They have no professional training, but, of course, they have a varied experience of the Order

owing to their long strates "Yes.

5637. Is anything further done by your Council under the Oedre?". I think I monitioned in the reply I gave to the quiries of your Secretary the number. of dairies that are registered in the district. There are only 13 persons registered for 180 coses as dairyyou to answer-do local influences in soy way govern

mon, ookkeppen, or purvoyan of milk for the entire rend district, containing an area of 104,000 series. 3688. And a population of 9,7007—Yes. \$600. In the town of Bellinghas, do you know is usy that I cannot tell you from memory of any flagmost 5655, At all events there is a feeling prevailing that the application of the Order imposes certain conthere a searcity of milk for this proper reliabetance?— Yes, through I think the town of Baltingless is better distons which are remeded as relicing by the consupplied with milk then many other country towns, knowers, and this prevents the Order from being of supplied with milk than many other country towns, became many of the shopkerpers have town parks, and they sell milk to their own customers; but a laborers man teld me that he sould not yet sells, as

his name was not on the shopkerper's books. 3540. You must be a recognised customer ig these alterves were not reported.

5854. Is not that a source of danger to the publishertain shop to enable you to procure milk?—Yes. certain shop to enable you to procure melky—Yea. The milk soft as a draw to the provision and other shops. On inquiry I found that there has been a great distintation in the number of milth cow kept by the traders of Baltingham within the bat 10 years. 5641. To whyte course do you nitribute that?—Wall, because where milk was sold, and that the disease was not notified. There is a tendency to conceal discan if they can. There have been ancianchely results. 3 in my neighbourhood attended

sheet is a diminution of tillage, and people go in for rearing after cattle. Bellingiess Puls has improved in recently and in consequence conveyed scariation to his funity, and one of his children died of the disease.

5655. Thus case was not reported?—No.

5656. Have you made a notification of inherentees
imperature?—No. that remock as those accumpted with the cattle trade

1642. De you know have the provisions of the Order and sts enforcement by your Council in any degree limited the supply of milk?—No. There were 195 cows in the neighbourhood of the term thirty years ago, 5637. Year people don't seem anxious to advertise their menfortunes?—No, the County Council adopted the Nosious Weeds Act, and afterwards it was

and at present there are only 65 cows, and some these people, I am sorry to say, are not registered.

5645. Bo you enforce registeriles?—Not as perfectly
as it should be. 5608, Certainly you are not porticularly associated adopt modern methods of legislation in your districts? -Members of the Council, you see, were interested, 5644. Would you tell the Communico casetly why and they opposed at

-864. Weed yet will the Communion enably will be a yet also embers the protroms of the Oelet-sis it a yet also 's embers the protroms of the Oelet-sis steply-six, but some people dust like to be a requiry-six, but some people dust like to be a compelled to register the rootsers that the demand for compelled to register the rootsers that the demand for the yet with a must. Them is a defined—the Glue of Lincel—where there is an arbitrey rings dering the summer resolute. The men repopling the range with 3639. In there a discinution of tillage in your fa-tricts—Les, you can get the official diprice, 3960. I would like to know how he this diminutes is a furfar in restraing the null supply too consumption is a fixed on resistance the nulls copply for contemptions successful the poor\*—It is to Stone extent, but to wind exclude I, character and I, and a content of the content Medium! Officers of Health and they took one there was a deficiency, in the multi-copply. In test, we was no deficiency, in the multi-copply. In test, we leaster took in with these was not use in confering mil-far people, that II was not procurable. I have known decleast who perchased milk and gave it to the publish-tic production of the publish-

summer months. The men supplying the range with milk registers only during the summer, and then applies for a withthread of his registration. The following summer he will take up the registration who sould not get it otherwise. A policeman in the village of Kiltegen told me he had to buy condensed 5645. What becomes of the coses that a man like willing of Articipas test me he had to key consumer milk. Some people come in from the country but miles to Baltiman and Harketthown for their male that would keep during the period the soldiers are not in carep?—I presume he converts the milk into butter.

Mr. J. Barra Dana, 20th Jensery, 1913.

1991. Are there any occurrents at all in your distincts. No. in terrestrolling neighborhood?—No. 2003. It is helder piecessay to leight, with you that the milk sergle is no branch, whether or not shinken the sergle is no branch, whether or not shinken the sergle is no branch, whether or not shinken the sergle is the required of Mr. William Zin, Sweetlery is considered of Mr. William Zin, Sweetlery is not before. The other is said required on the sergle of Mr. William Zin, Sweetlery is complete, and the sergle of Mr. William Zin, Sweetlery is considered in the sergle of the sergle of

One theore, with a well and four children, both me that be got a higherneyworth of mide in the acceptaand a higherneyworth on this in the acceptaand a higherneyworth on the eventure-about a point a star of the control o

2004. In the ordin supply increment in the the-Brenic feet half-neight, distinct a plate, and may go bild-sport, and the plate of the supply and the plate of the man of the plate of the plate of the plate of the said of the days hard score, and for supply they get units and other days hard score, and for supply they questree of a pint of cores miles—the proportion of mile is half-part to each part of cooper.

5005. And in the assiglity of instances labourges pershaue for their laurilies (odly a hallpearqueeth in the meeting and a halfpearqueeth in the evening?— Yes, and a pursyweth in some cases. That applies while the labourea's furnity is small and earned hall him, but when they are able to help they get a larger quantity.

5664. In the larger quantity available?—Not all specials, and there is a nonprint absence of block-sulfit. A former tald use more porter as durink in the height) then horizonally. A former tald use more porter as durink in the 1667th limit horizonally. In the subsence of milk or eighters must necessarily have an effect on the tall to eighter must necessarily have an effect of the tall to or. Yet chalden sown proches. They are not then one of the chalden sown proches. They are not her rosp-decked shifter we have for the first of all.

5908, And if the district to which they reside its ranted by an applicate children such as you describe would quickly successful.—Yes, I sax told by the doctors that their disease-resident power would be less. 5909, Exce you shought of any scheme whereby the definition entires in many orbitals and the recording

does not be a supported by a section we record of a deficiency emissing in your distinct could be recorded?—Well, I think I suggested co-operation.

8670. What form do you suggest at should take?—I should like to see a society of features organized, say, with the samitance of people of all descountaions, especially the derignized, and it is certain amount of

with the numbers of people of all determinations, which was authorized to the control of the con

holds for on white worst entire years the conliging a transpared word of the postularly designed as a transpared word of the postularly and the postular and 5072. We are glob in receive the operator of oreystrease. The forcements on not entomated to say definite view, so do not understand that there is not destine view, so do not understand that there is not absolute fraction to expens your own understand pageseast, utterly sugardiase of whatever watherdry you respect to the persons who per forcewal the other excepts for the persons who per forcewal the other theory, but I have not own ideas. That is my idea—outperstand of farmors, aded by a loos.

50%. What I went to know from you is, here for it would be possible to secure the co-quention of a certain number of poople of letters to work and outside and the contract of the contract of the contract is work have been carried through by a obsergement—Pather Phrase port involved the contract of the contract of the personal time the path produced by the nonlike futures to being held weeked. They keep the certain small

support. An presents, at you want to got never you have to got Cheeve, and a butter resolute in Ballingham? 5674. You have not a butter resolute in Ballingham? —We have, but not in the winder fune. If this co-operative depot, I suggests, get the milk from the mailer farmers, and were board to sail to it is a resonatible proce—a pearry a prath—displayance a gallon is ample—I think it would be the best means of dealing

3675. Do you think that milk needs he produced for that yellow as a resonable poofs in your fideries?—Yes, 5676. The cost of producing milk wates in different isosalitor?—Yes, owng to compatition we have a low contrast princ m the Weekloons. 3677. What is your usual contrast princ?—For the last five years, from 544, to 654, a gallen.

2679. So that there is a safe margin between that price and Sh. a gallers—Lee, and any saffit left over after 9 a.m., or 8 p.m., could be converted into batter. The cells should be said at the depth from 7 to 9 in the conting, and from 8 to 8 in the counting, and from 8 to 8 in the counting. So 900. And the sumplus converted into batter?—Yes, 2880. And the sumplus converted into batter?—Yes, 2880. And 700 de not proceeded that there would

both Alai you so not appeared this serve woust be any difficulty in getting a soft-ineat number of people resident in your distinct to manage and control such as elever if one attented?—I are engagine in that respect.

2681. And the only condition that you would impose in that money should be had on meanwable terms for the purpose of covering the capable appealings?

1506. Are you capsed to a subvention from the State or head rade—I are. 1508, and you believe it would be possible to deal 1508, and you believe it would be possible to deal 1 it the cole you to do it do not have —For I think I it the cole you to do it do not have provided the Laboreum Aost income of them and a half per certain and it is sufficient in a few privates only a percentage and it is sufficient in a few percents. The percentage containly reliefold/rism in one series, 5094. Thus it harply scottedited by peed authorities— 5094. Thus it harply scottedited by peed authorities—

in the rem stant II seages or ut on the mirrors.

Evalual fire rem changed on not equal to the mirrors.

688. I admit it it out, but at the same time it must be remarked that it is possible to work that observe that it is possible to work that observe the principle of their admirrors.

689. I admit it it out, but at the same time is must be remarked that it is possible to work that observe the principle of their admirrors.

689. It is mirror that it is possible to work that observe the principle of the principl

860°. It has been suggested to the Commission by supervisionations of date informed that has introduction representations of date informed that has introduction to the local that substituted the test date local that substituted theorem informed that the local that substituted theorem in the local these substitutes and the substitute of the local theorem in the local that the substitute is produced in your altimate to the ways. In the local theorem is produced to the ways, he hads the eight to get a supply at smith, the local that the local the local the local theorem is the local that the local that the local that the local the local that local the local that the local that local the local that local the local that the local that local the local that local the local that local that local that local the local that local the local that local the local that local that local the local that local t

Mr. J. Bully Dago, 39th January, 1912.

5688. At all events, you think that the relations substitute between the employer and employee have substantially varied owing to the independence Yes, so far as the supply of milk is concerned. 5699. We have been dealing up to the present with a scheme which was apparently only autoble for a

5090. How would you suggest that a roral district 5090. How would you suggest that a roral district should be dealt with for a similar purpose?—First of all, I would economage the breeding of horizon goals. About eight yours up I was six a Tuberculosis Congress in London, and in the Vetterrany Section a Belgion

in Lockets, and in the Victoriasy Section a Solghon positions and the best of the state of the con-ception of the state of the con-ception of the control of the con-ception of the control of the con-ception of the con-trol of the control of the con-trol o would be a great mater. I attended duity lectures in my district, and when I asked the dairy instructor what was the price of these steam's it cocurred to me the dairy instructor; is amounted to a whole year a rent; and is would be well if you could get five or sax of the small farmers to chum on different days, age of the small farmers to chum on different days, and let the County Council lave power to supply them with charang stensils, as they did potatoes and onto under the Seed Supply Acts. I think that would belp

1662. Do you suggest the County Council rather than the District Council?—The County Council are the rate anuariness, see Datines Comen no not serific the rates.
5908. Now, you see apparently varying your tiars,
because you do magnets striking a rate for this particular purpose. —It is called a rate. It is assessing an
lantelment upon each person who would get the strendle.

Meanthing upon case person who would get the uteraths.

5884. Levanble on these above—Yes, the same as on the people who got the seed pointee. It is legally called a rate, but it is really an instalment of a loan

\$606. I would like to have your views on anoth suggestion made before the Commission. How do you high a scheme like this would work supposing the District Council had authority to enable them to enter into a contract with landowners and cowkerpors in into a contenct with installeriness this convergent in parts of your district, for the purpose of tupplying a fixed quantity of rulls, to be defirered within a certain rules by them, at a fixed price, which would be guaranteed and paid by the District Council. How for do you think that would be a presideable scheme if the gost scheme was not entirely effective?-I think ii. It means to a cerean cases one of kind, only that you pay for it. I am aware that in some unious the rehereng officer gives colled in kind—ten, beesd, sugar, oto. Thus as peculi-cally the same kind of scheme, only that the propte

by the mant they get.

5996. The only object that I have in my mind is to except first people living in remote districts, who find it impossible to procure milk children, even if they had the money to buy it, should common, evol is ting and the menny so buy it, should be provided with a supply. How are do you think that condition prevails in any part of your distrac-ies there any past of S in which people having money to buy sulft for their children find it impossible to provide IP-X-te, thous it.

procure it?—Xes, there is.

2697. And do you not think yo ought to be the first essential of local administration?—Well, may own sympathies are with the above underlying it, but still 1 do not like the State to finish fare too materially with

SEER. I must say I do not see any conflict between

trade interests and a scheme of the particular hind that where the influence would end,

5000. I ove quite understand, but do you not think that the public health is really one of the prime consideretions of any administration, whether local or

There State?-You, but still I thank there is a hourt. should be some that to State interference. Of country, it is very large to strike the line, because if you past 2710 Here you the same obsection to a local rate between or the purpose of providing homose for the destrines, for the purpose of providing homose for the destrines, houghtle for the sick, heliatival schools for destrines, children, sujmus for the means. All of these objects are for the purpose of protecting those who have the are for the purpose or presenting more was nave too restrictions to be made a visibilities of perviolation. The solution for the supplying of milk would begin to holid up robust consistences in the rising greating, and through limit the number of those who in the into mercing most the manner of those who is to Is it not an inslogous application of public money the only difference being that in the one instance is is prevention, and in the other care?—I cannot give Side. I have a great report for many than American, but I disw the line et American journalism. —This is a standard back on the question of public finance by a Professor of Economy in an American University. You saled me a question that I find a difficult to welly to in my own words. The opinion I select to is that of Dr. Plehn, eather of Public University. For maces me a question was a man in difficult to reply to in my own words. The opinion I sefer to is that of Dr. Plehn, suther of "Public Plusare." He sides.—"It is impossible to appears on a years grounds of every intrusion of the into fields littles to set audo to the individual. ency, ambitton and shillity to advance is it permitted And only when it promises definitely to moreone the importance of the leadyidual in the load are seen

long am in it the State sevence into new finite."

308. I would perfer it in 'your own weeks, but I will not posse you?—When I look in the matter from 5704. What I do not understand was why, having

gone a certain distance, you are not prepared to go turber?—I look upon subventions as falling unputly, and amounting to a poil-tax—a tax on the people at large. this perfector but that you think it impost to lovy it on the whole?—Yes, 5706. Would not that make it less democaliza-

d shous in subvention grants.

5707. You are strongly in layour of procuring to operation for the supply of milk to towns?-Yes, oposition for the supply of milk to towns?—Yes.

6708. How far do you think that scheme could be worked for the country, supposing you diseard what I suggested—how would you suggest the application of you co-operative scheme in remote mountainous di-troris\*—These the gost would come in, because by incis\*. There the goat wome cone to confid do very bille harm on a monetage. You have could do very bille harm on a monetage. You have rule, the valuable male artiful belongs to a conflection of means; and I think if demable heaters permum, provided the furnees kept them until they were mileh cows, it would tend to persons a more

TOWN I am very sorry Mr. Complett is not person to bear this particular stirr, because it would be of the particular stirr, because it would be of local coldinors, the welling syntheson transers, and the wealthy people, will have a valuable made amount whether they give a radeoly or not, cond I timbe the small factore should be exceedinged to keep a good specific properties.

5710. You think the heat types of animals are not kept for the nurpose of producing mulk?-I am afreed nob sil.

Offil. And you believe that fact has a critical informer in limiting the supply of collect—New. The huyes book out for the good owe that is easily converted into month. I see not limitely the other days at a meeting of the County of Limituric Approximation and Technocal Committee, the following aroundment was proposed to a tethnologue—"But owners of over

Mr. J. Rales Daon.-20th Joseph, 1919.

calting between 1st Getober and 1st Jan dates mentioned. No rate to date very very Owners of subsolved caces then £16 in any one year. more than £16 in any one year. Owners of subsoluted cours must generate to send the full milk supply of those cours to the creatury; and we sak the Depart-ment for a subsoly of £3,600 to carry out the solution." Phis amendment was rejected and the following resolution was passed—"Received—That having exhaustively considered the question of winter dairying. we request the Department, as an oncouragement ! we repost the Department, as an encourageness of the movement in this country, to substitute all milk-supplies to creamerles, and to the extent of 2d, per patien for the months of December, January and Yelvestry in med year, such activity only to be calculated on the increased supply over their ordinary anapply, calculated on the street previous years.

supply, calculated on the average.

3712. That is quite a new aspect of the question?—
The idea there of the subsidy for the core agrees with 2713. Referring to your earlier ovidence with regard to the dury inspectors, what is it that these officers do in your district? They impact the registered darries monthly, and state in stereotyped induce the height, length, and breaith of the premises, the beigns, seague, and became to the provider, the margher of color feet, that the water is sufficient and commisse clean. I think it is more from a suntary

point of view that their services are effective, hereans where manure brags are too near the house, and the 471a. Do they report defects of that kind to the Council?...Yes.

1716. Even to prosention?—We have no prosecu-tions: they comply with our orders. 2717. The more service of the notice was sufficient? SIR. Have too a veletinary importor in the district?

... There is one upder the County Cornell —There is one under the County Docneth. 5710 Does he make inspection of darines.—No, we have no votermany impector fromg in our Renal Dis-troit. The votorinary impector under the County.

2721. And no respection is made to see that the azimult are in a besidey condition?—No. On our occusion the dury impector reported that he thought and of the animal quickly, and not to use the milk for

5722. With what yould?-I cannot call to mind. 3735. It is not quote a record occurrence?-No. 5724. But at all events no action has ever been islan to enforce the carrying out of the Order 3-No. 5725. You spake of vessels that have been used in ATM. Is much attention given by your impectors to

some people that should be regulated that were not some people that success he negations that were not. In fact, there is one extensibility once, a duty former was fixed 450 m. Dolbin who is not registered in Dubbin. My nephow came to visit me said he said, "Part water note this milk. It is too think." He was reconstanted to thouser milk,

9727. Where does he come from?-From North Dublin, Drumcondus. 5788. That is in the manicipal area, I am glad to

should be sent for sanipsis more frequently. 1729. In there a large trade in your district in the scaling of milk to Duktin by train?-From Beshvilly scanning of more to Distens by train?—From Bashvilly statice there are three formers, and the milk is also werk from Groupe Con and from Dunhams. There are shout seven farmers entirely supplying mile to Dublin

2730. What precontings no taken to ensure that the milk test from these districts is produced under clean and hygiests conditions? In natural dose beyond what your dairy inspectors do?—No.

2723. Do these dainy inspectors even report to their 1998. What notion would be taken by your Council on such a report as that?—I would be instructed to serve them with a notice, saying that the dairy maporton had stated that the venuels were invited.

mapotices had databed that the visuals were uniteracting and to get them (color)
important to perform the properties of the properties of

3737. Does your veterinary inspector look after the

3737. Does your viterinity impostor look after the cover every mention—We have no viterinity importer. 3738. It has been given to us in viterious that in occidin parts of freited milk deputs have been cutab-haid. We had evolution from Lady Mayo in reference to a depot the established in Nasa, and he said that it was of the grantest advantage to the town. There it was of the greatest savantage to the town. There are three people who comittee and supply the towns people of Ness who come to the deput for the milk!

—That would be a very good sites. My own idea is for the milk? the name, only that I want to have the depot under the name, only that I want to have the depot under the management of a committee. I know the termets sace who would step a sig sairy. We had large datries in Endruglass thirty yees apo-one with twenty or thirty cown. The greatest number of cown now in any dairy is the town in seven. 5739. A system has been started in Carlow similar to that in Nama-I was not aware of that. 3740, And it also has been most resconded and of

the greatest benefit to the people. It was started in 5741. You, and in Name?—Unfortunately we have no persons of large means resident in our neighbornhood.

o Cedow they have. 3742. From what Lady Mayo told us it does not 5762. From what Lody Mayo tote 25 is some country people with large means, but people to band thousandton together with a with to help their themselves together with a wish to be pensitiven; "-Practically all the people in the to come together to form a milk depot against the interest of these people.

3743, B is not against them;

connect get a supply of milk in the pleets—I quite agree with the sles. Where you have people publicationing coupil is woold be good. We find great difficulty in getting philanthropic work corried out in our district.

3744. In Meath, Father Barry, of Oldouble, has shorted a solarme for providing unit for labourers. When a large much was bring distributed 18 acres was not provided to the belower to was reserved for the benefit of the lisbourne to grave their cows in comman; and the cost to cosh labeturer is about fluirly shiftings a year?—That is very chesp. Two shiftings and suspense a week is what is obassed for the gress of a core in cor district. 5755. This makene is reasoned by a committee appointed by His Emellency?—If we could get gentle-

men the Tuther Barry to take an interest in the matter half the bettle would be won.

5746. You think that would be a feasible scheme if balf the it could be worked?—Yes,

7567. Dr. Moorenas.—The number of coses us your
district has districtshed?—Yes.

3748. Has the population of the district dimembed? -Yes, there has been a stoudy decrease in town and 5749. Are there may other institutions besides the

workhouse in your district?... No. \$250. It has no difficulty to getting its milk supply? -Ob, no; there is great competition for it 8783. So that there must be more milk preduced than there is demand for II a pressu loses the con-trant for sopytying the workhouse to changes be-system of ferming. There were six long farmers wh-legel from wearly to that you so appear, and now them.

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Mr. J. BALPH DAGG .- 287h January, 1912.

see only iwo. The competition for the workitoms supply is now between two persons—a little com-\$750. The Cassessan,-There me only two persons in the immediate vicinity keeping sufficient supply the nonkhouse?—You.

supply the nonkhouse?—You, or at the distribute the dissipation of the contract of the contrac tuon in the milk supply to the decreased men under \$154. If you started a co-operative achouse would you want to increase your tillage?—Yes.

5756. Is the population available for that?-I think the population is sufficient to do much more billare improve the land, and stodies food.

10700. And you would have sufficient consumption of your milk to have a groft at 8th per gallon?—If you are a permanent customer of a sheplereper in Ballon.

glass he will give you a supply at a perror a pent off We year round.

3797. But that does not admit of much peofit, I think?—These farmers who are selling to Mr. Nash. messager of the Leene Butry, give their milk at 51d. \$758. The CRUROUN.-Is milk sent from locality to the Lucan Darry?-Yes. fordity to the Lucan Darry"—Yes.

5759. Dr. Mossanus.—Have you say experience of say other method of feeding outlie in wanter except

scota?-Yes, cotton eske. I have som cattle fed upon by west grains.
3700. Is there may enalage?—It has gone out. Three me that it only outs in a wet year, when you can't iske good nev. 5701. Mr. Witson,—Can you explain a discrepan

in your summary of evidence—you state that you have only got thirty-three persons registered in the whole of your rural district, and later on you state that scarly everyone has some land of a dairy?-I mount the mills.

of 62. Is the number of people who keep cown much larger than the number registered?—Certainly. If suppose there are a theorem people because goods to the word "desiry" I meant husburg. Persons who supply

milk to their secoffees are not obtain an expensive, they may only keep the milk to produce batter. 5763. You have already told us that a certain quantity of this milk is sent into Dublin, and that you have no veterinery inspector?—Thus is us. you have no veterinary inspectory—Itsus as so. 2764. And that no notion is taken if the hyres are not in a santtary condition. Looking at the matter who like they not get powers of control over these bysas!

There is a general improvement in the people, and in the country there is less danger than in the city. 5766. That is not the evidence that has been pro-nord before us. The risk that covers in the milk then in the city, and periscularly in lyres with a small transer of ower-I would not agree with that

5766. The reason given is that the man who has a good many own will see in his own interest that these ooms are of a high grade and properly onced for. ever he has a cow stok he will not send her milk for mile, for four of injuring his reputation, and if she is discused be will dealers her; also he as usually a helical educated man, and arman man, on the conversy, me not such valuable cattle, and if snything goes wrong with the milk or the eaw it is a fermandate loss to him to destroy either the milk or the cow, and in the disease being dissernmented by the milk of such

5767. Your largest delay only registered seven cowe?

—That is only in Beltinghas. I was dealing with the milk supply in the town. 5708. What is your maximum?-One man is region bord for mine, another for twenty-three, another twenty-five, and another for twenty cows. All those 5709. So that the seven-row byre only applies to 600 lows of Bultingians?—Yes. 5770. Supporting this Commission should recommend that the city authorities about get power to copies tyre cutesfe their district, how do you think that world work out in your mon? I think it would be a STIL. You would not nationate any serious factors

between the Dubles authorities and your onu?-You asked me some time ago about closuliness. and one thing I have objected to at milkers poining their flages tolo the parl and not westing their basis, 5772. With regard to milk depote, the milk depote 3772. With require to mme depote, the man separa we have head most about have here established for the most part on pluisatherpus hase. They have been in the univer of a charity, in order to supply a high-quelity of mult thus as supplied in the ordinary comnecessal course, said course, and they must of necessity less. We have had oridence that these high-class municipal or philosophergen darines samuel be rim at a commercial prefit, at my rate at hor such boss long gasted have that they have. Your idea would be to run a somewheat empty of mile on a philosopheral hants—Proctically, but I would expect that they would by to wake without a loss. If you had a loss in a municipal new you would be lively to hore a 5778, This is a double question—one the ostablishment

of a depos where ratik of a higher quality could be obtained for the purposes of a suck obild; for example where a dector can give from or cheap milk, and in that case the municipality, or a obflanthrosic society. that case the municipality, or a permunitropic sector, whichever was available, would manage what may be called a dairy for shifteen or infinite?—You have present others is district as senarce of illinear—how eace prime to supply milk, if you can get in, through ribbring officers, provided it is recommended by a matiest men. 2776. I set not of speaking of who would come under the Poor Law?—Wall, the well-to-do farmine have cown for their own use, and they do not self only, or cover for their own use, and they do not self only, or will not.

5775. Quite sc. Let us take the case of a well-to-de family, and the doctor says —"The skidl must gei milk of a better class than you have in your own dairy "?—If the milk at up to the average in fat and OMY 7—If one muse is up to the avelage in mi and in offset constituents it should be sufficient. As a rule, one cow's milk is the same as another. There is no idea that if a new gives a lot of milk it is not as rich a that of the cow which gives a issuer quantity. I have a couple of owe that would give an chormous quantity of mile-four pillons.

55754. I put it to you that the term " duity " jackajes rests; and my amountain is that the ist a jesth; and my rangestion is used in iteel authority could equip not immage themselves, or substillar the type of dury that is not making a peofit, such as the con in Sitric Road; but that it is not their haviness to interiors with the consentroisl milk?-I species to instruct with the contentrens mile?— species to far as public health reporters. I dealt the expediency of the municipal management very much. 5170. Your idea myelves co-operation?—Les. 5777. I do not quite understant what you mean by a

required is the people ferming themselves into a com-pany composed of a number of small fermion who absorbe each a share of capital to work the depotwhere does the grant come is -for what purpose is if refficient funds to supply all the capital, and I want to enable them to get it.
2778. The Joint Stock Banks are there?--Yes, but out. They do it in order practice?—All I would ask the Government for is a lean on reasonable terms and not a grant. It would take probably £200 or £900 to

equap the dairy. 5780. Dr. Moosman,-Would you not want more than that for the cown themselves?-I am not touching the cose. I wish all the small farmers to some in and sell their milk.

5781. The CHARMAN.—This would be only a distri-5782. Mr. Wilson.-I put it to you this way, that at the present time there is colling to present the

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farmers in Baltinglass from coming together in a public meeting and seeing what amount of support they would meeting and seeing work amount of suppose say working opt written's any assistance from the States—A sufficient sum would not be subscribed. I had some experience of that. I sated as secretary to our town hell, and it was with goost difficulty we get 2000. If

STAR. It is, of comes, a feature of co-operation that the place where it succeeds heat is where the farmers ratio that own opitals. It would be immore to be habi-ing all the capital and the behince got on loan from the Government. If the apptial necessary is allow, the flammers should extensive £120 of that in £1 shares. In the control of the control of the control of the con-

5704. We have had evidence before us that the Board of Works are quite prepared to great loans for the purposen of this kind?—I were not aware of that. \$785. The CHARMAN,—I think the Board of Works cely grant learn for the improvement of bytes Mr. Wilson.—I thought this would some m. The Chapmen.—I con educal not. I am rather

and Changes, of on cross out. I am rather undired to think not, because, you are, the Board of Works has only power to grant manny for the superovenient of buildings connected with the hand. could hardly be and to be a building connected

should take place two hours in the morning and two boars in the evening; and that my milk that was not 5786. The CREECAN. You estculate, of overse, that

the price of milk should be fixed for a certain period by the peasaters of the co-speculive submind—les. \$380, Serpence, seven peace, or eightpeace in the winfer, and fivrpence or sexpence in the summer?-5788. So that the framer know that he had an output r a certain quantity of refft of a fixed price?—Yes.

3789. Lady Evinant, -- Wift regard to Nazz, Lady New Lory Eventuck with report to Evan, Lary Maye's evidence was that 8d. a gallen was paid for the milit—I should say 8d. a gallen as fare price, because 8d. a gallen for milk represents 1/- a lb. for 5790, Mr. Witness.-Did you discuss this matter

with any formers in the neighbourhood?--I have not.
I feld the Guestane the nature of my endence below this Commission, and some of them approved of it. by Mr. Neil to start something of the leval, and also

Phelan get into delicate health: 57%, I think it would be a very interesting experment if you got up a meeting dealing with the matter, and reported the result to us? I was asked to do that before, but being a public official I could not do so. 5795. Dr. Mossman.-It would be to the interest of the formers to have the dury, they could send their milk there instead of to the Lucan Dway.

2794. Mr. Winson,-You spoke in your summ esticance about the milk atomshi being weeken. Would you see any difficulty in making those vestels illegal. 1586. You would be in favour of stendardsone the

1766, Lady Evason,-Have we heard of milk 5797. But you have board of the term, "typhood correspond". We never had a case of that had, 5766. See Strewart Wonnespense.-You say there are

thrty-three registered persons in your distinct?—Yes, 2700. Deen that move thirty-three places registered to the sale of milk?—Yes, people who sell it or send 3800, I suppose a considerable number of these are
""-sketstown and Sultrarists?"-I should say

in Hasketstown and Sellingless?—I should eightern an at the town and fifteen in the country. 580]. There is a greater sourcity of mall, in the country than in the town?—Yea.

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5002. You spake of a gracestice ups, that there were resystheshed children, and the unknown condition observable in some children compared with that time?

1800, Dtd the children get a larger supply of milk at that time?-Yes. 1804. The acardity now does not write from any

morene of poverty among the people, but from the fact that milk is not accomble to the same way?-

5805. And your proposal is that means should be adapted to spread the supply of milk more widely?— 2005. Could that be done at the present time in the country districts by the rehering efficers being om-

perus detacent caying at 6d. as a selling at 8d. a gallon, and if the collaving officers were not available could a treatwaythy labourer in a Union sattage be employed —could esthing be done in that way!—That is this side that the Chairman put before us, but I do not think to wrong he are constituted upon to their some common conferential excitors be sufficient to the contract of t

dairying should be taught in our National ture one carrying should be sauget in our National. Schools. If think the sheence of sould touching in a great defect. I think the people used the thermometer more it would be heiter too. When I was a small boy I spent some beliface on a faces in Co. Cock, and the apens some nelitarys on a term in Co. Cock, and the wife and all the daughters oranged in the milling of the core—they were young laters that were ofercated at high-class schools—went out and just on their overalls and millied the cows. Now I am alread the please stool and milted the cows. Now I am array to plane the is more cultivated than the milk stool.

2022. Dr. Mossaman.—Have you often attended Bul

6810. Have you seen the coses milked afterwards in the fairt.—When a man boys a new he tries her, and monediately also as purchased the pure people take away the milk. There m, of course, a danger of the cows heing overstocked.
3831. Did you ever notice the sort of vaniels in

which the people take the milk away?—An ordinary Did you ever notice the occulation of the milkers?-They are the poorest people who go around

Set3. They are not in a very hygicuse condition?-3814. And the milk is not strained?-It is not. 2815. And if there is disease in the cow this would

he a way of disseminating st?-Yes; and the odders see not washed. 5816. There is no supervision for this also of people

whiteours?—No.

\$4877. The CREMENCY.—It has been magnified to the
Controssors already that the issue of Basuces would
be at additional satigated to the public braids in
camering that the milk would be always produced under
hyperone conditions, and the behints of those almosting
to the cows would be always alead; what sends poor
traves to on this subpart?—Too should have been official much nery for controlling the licensing of com-lespens. At the jaccont time I made a registration keepers. At the present time I made a registration confidente, but it is not worth the paper it is written

2818. The intention of the person suggesting beensreg was that it would go forther than registration, and that the personal character of the individual applying carried on should be inspected previous to the grant-You, with the addition that you should have a com-580R. Do you not think it would be in the interests

of the public health generally that there sinced be a universal application of the Dairies and Milk Shope Order in every district?—Yea. 1880. Do you think it would be possible to carry out that without having none croised control. Hereunder the old but we were under the Council in the Castle, so I presume that we would have

contral control.

Mr. J. Ratett Dans ..... 39th Jonuary, 1922.

2021. Do you think it would really consince to the efficient admiristration of the Order if the admiristrafeed. Do you think it would be absolutely manying that it should be done in order to ensure uniformity tion was supervised through some central authority?-

Sect. The CHARLES N. -- You are a medical practitioner in the County Tipperary?-You. 6824. And resulto iti Canhel?-Yea. 5925. You have a wide and varied experience of the conditions under which the majority of the possile live?

You, I have some experience at all events, 5836. Do you held any public appoin Yes, I am Physician to two Hospitals. appointment?... 5827. In the form of Cashel?-Yea 2029. And does your practice extend to the Burnl District surrounding the town?—Yes, sir. 1829. And being resident in that long, you are

naturally familiar with the conditions under which the scopic five?-Yes. 5830. I understand that you were interested in this quarties which the Commission has been appointed

to investigate at a period very much in advance of the period time?—Yes. SSII. I see you published in the British Moducal Journal of 1885 a teaper dealing with the subrect?—I

road it before a grieal meeting of the Association that 1892. And you were conscious of the fact that at that partieular period there was a need of making some stirrelized to the poorer population. I was satisfied that

unless something deasile was done the poor would suffer, and every other than, the State and the local tax-over, son all reared under the avaton, would all be lowers, and that therefore action ought to be taken. 5800. And your further experience confirms the views to then expressed. Fee. I have too to opportunity

of appressing and urging my remedy. 5854, Did you in that paper deal with any suggested enedy for the then existing condition of things!-Yes.

3813. World you be good enough to give us intelly what your views were on that particular question—the question of cresments bad not then become a humaing recognised fact that where an article was required for Programed likes some water an arctical with requirement the proble benefit, the owners should supply that article on gutting the full value of it! that at that article on gutting the full value of it! that at that state, if materials were required, for mainzee, for the repairs of public bigivenys, they should be supplied, the made arrangements for supplying a large quantity of the principle of compulsory purchase should be extended to the unsurchased holdings of Ireland. The contradiction between these two resolutions will savily the difficit between uses we rescarate to a make supply, but the point I am concerned in it this the people who sak for compulsion must be prepared to people who are nor acceptance must be proposed with composition. If a close adds for everything to should be used to be public have a right to demand a tirtle in that direction for the public hannelt. That was the view I put forward then, but after Mr. Bussell's proposal to get up recruicipal district, I am intensed a proposal to get up moreocoal diarries, it am inclined to accept the proposal put forward by him it could be corried out with reasonable promptitude. When the Englash Albitment Art many before the sion to this contiley—were use the continued on the English should have the powers conferred on the English Bodies. The last Bill would require one or two infling Bodies. The sea and advantage of the Bill shall be extended to Ireland, said that the County Council shall include Borough Council. The last Bill trans-

Da. Tuosas Larvay, M.B.C.S.L., cannined

ferred to County Councils in England the powers which were formerly vested in the Boroart Council. found, for a reason that I extend traderstand, that these bodies did not do what I concerned to he there duty, and it became measure to transfer their power to the more intelligent county bodies. The local bodies form would do their duty if they got the power, It that Bull that Bull that been passed that milk question would be folly mot with in Municipal districts by the Municipal bodies. I may say at once that I am opposed to votes cristcoe, with logil muchanery to give effect to reorders. You don't want to be taking because don't want to be taking houses would be done very much alonger and more effectively

by the legal hodies. I would like so set, instead of the drautic nossure I proposed twittly-five years sgo, Mr. Russel's iden given effect to, but Mr. Bennil's sides could not come into operation until a long term of years. By the time you had all the Municipal house in Ireland recycled with the land which the number of years would clapse. Take, for instance, number of years would clapse. There are only a fee. fits Evacted Tensets Act. There are only a fea the Evacted Tensets Act. There are only a fea thousand to be disposed of, and taking these cuttifle the throusand to be disposed of, and taking these contrible to statistically limit is been, they would not ammost to \$0.000, and yet only a armall proportion of three hare how provided for in they years, so these would you provide toe ten times that turnber. I would like to see the poor woman, who at premain the data with the edifferen-tic sloppy ton and white breed, placed in a position to sloppy ton and white breed, placed in a position of the showerd a supply of mill or moving a section. to stoppy ton any wante mean, pased in a possum to demand a supply of milk on paying a certain definite price, and shak price would be the price whole the owners would be paid for their supply by public institutions, such as workhouses or asytums. would be the boarst test of the price of the article. Now, the fedure of the milk supply, and the fallers of the peer to get their supply, is a vity complex question, and I carnot make a full rapty in regard to The draw-back in the supply is due to the strained relations between factors and workers, and one reason why people have got out of deltying in the terrifile risk of having their cown destroyed on them. Such a thin secured as that the farmer's whole staff muched of occurred in teas on increase whose state innecessor to seem Clarke authorities, and did not recollect to return at sught to milit the cower, and still oftener comes are impositedly milliod, and these are the tergent reasons why a large immber of people who had muchts cowe have have been done before the one in the control of the contro the community is very great. There is a hope, of course, that the pre million mathine, which I m toppy to any se working very well, man supply the luggy to my a woming very west, thus supply as-individual milling agrees or instrument, but it the relations helween site two classes, the furnier and the worker, could be improved, it would be very metal The poor people are at present suffering greatly, if the matter of malk, and as I did not come here & how-low to any chies, I may say thay are very much to hisme themselves. If they pulled better with the to likeme the merce. It have popped to merce was one farmer there would be more midth cows, and they would get their share of the mells, as they used it former days. There are nicke, I personer, that if you can only double the supply of milk it would drom down in positive upon the nore poosle. That is drop down in pulfule upon the pure people. That is more momentume, because may increase up the supply of ralk will find its way to the present duching points; they will sord it to Engless) as butter of points; they will send it a cream, or to Dublin as milk. quantity of rolli produced will not meet the difficulty of the poor man, and the only way to meek it is other Mr. Russell's achieve or the one suggested signally by myself a number of years ago. I believe

a temporary semagement would made for a compulsory supply until the mumorpal supply came into operation. I would him to see the ground attornates made by reyself and other withnesses here as to the great want of milk, put to an arithmetical test; and that could be done by the police ceases.

aumorators severligating into the numbers, occupations, etc., of those who are living without milk

Dr. THOMAS LAPPAN .- 29th January, 1913.

partially or completely, and if these facts were put in all their fulness before the public, the indignation and the fright of the public would be so portision for the exist recession of the nominos. The Architakapo of Cashel provides 250 worth 6 mill venity for the poor. It is administrated by a Ladies' Guild. The people pet at for mobiling but you would not get people every day to do what the Architakapo of Cashal does. From what I guilder from Lady Mayob a website and from the regressibility of Lord Roses, they have and from the representative of Lord Hossis, they have done in good deal in a philushirogus direction. Burry-one in not saled to supply, or will not supply, cowe for nothing, but these people are doing the best they can to provide milk at a reasonable sale.

2306. Neither of these schemes is philanthropic?-8807. Lady Mayo's depot is phalastheopie objects, but is our on commercial lines. Lord Bose had to intention of bone shiftenthroots. He saw that had no intention of bone utilizationets. the difficulty might be mut, and thated his caterprise for supplying the town of Birs?—Coming back to the English Allotment Act, I so glad to have brought of hero, that in the action taken by Caakel in applying for its extension to Ireland we had the backing of three-fourths of the municipal bodies in this country. May I ask to put in as part of my ovidence a letter which appeared in the Dublin Freeman's Journal, signed William O'Relly. I do so, so Mr. Bussell was bed into error in staling than the distribution of the land in Atlanty solved all the difficulty—the people who see the land secondary to the statements made to him hence the perfection of philapthropata, whereas to him having the perfections of philamhireopais, whence as a motive of fast, they paid stored out to be an a motive of fast, they paid stored out to be an a motive of fast, they paid the paid to be provided by the propose. The Buglish Act possessed the great selecting that those could be no fine and the paid that the possessed the great selection of the paid that Sullawa were the only two people in Ireland, no Sufficient when the only less people in Ireland, so the I recoll has, who were troth and mill opposed to that system of sale, which was troth and mill opposed to that system of sale, which is dragging in molecrosis at the bank food. One of this great admixtages of the English Albeitsett Art is that the bank remains a public possessor, instruct to the orders of the public body, which itself will have to be very tightly bound. I need not recall the need to the Codabel Commissioners better appoint proper imperiors and not have the houses perv-built. I am glad to see that Judge Rodlan on Chara make and in this matter. So for for the re core speed out in the matter. So far for the public hodies, as distinct from the mere giving of land to "lados" in the town who were represented to be agons in one of the over the control of the thinny seizure to other towns. The difficulty will be not by the English Allotment Act. So far as the rural distincts are concerned, it will have to be not by a small will. I hand no this letter of Mr. O'litelly. by a general pair. I neven in that inter of Mr. O many, because it is proposed to extend the Athenry schemes to all Ireland as on easy way out of the difficulty; and as it is no way at all out of it. I think is is absolutely necessary that the Inter skool appear

\$658. I am afroid that would be hardly regular for best. I am array that would be narray regular for this reason—the witness who expounded this selectic earne up before the Commission to give his views on this particular question, and he suggested that this would, in his optimes, he a means whereby the difficulty could be 'mot will regard to forms. If we were to put on the record a letter appearing in the public we gas our and record a tener appearing in the public preas, which is an or perfer statement by an individual, we would be placing bins in a position of preference as compared with the gardinant who made the original suggestion, and who came before us and was original suggestion, and who came better to any war property to be cross-countred on the views he put string in the proper course, I would suggest, would be to invite the proper course, I would suggest, would be to invite the writer of the letter to oppear before the

Commission, and to give his reasons for the views he part forward in that letter. Then he will be in a part to reare in that (city). Then he will be in a position of perfect equality with the person who made the original proposal?—I have no power to invite him to give evidence hefore the Commission. 5888. We can got his Scentury to communicate with him?—I how at once to your reling. If you amounts from the chair that you are willing to receive his eridence I am satuded. 5000. We could take his evidence at another center

has would be the farmer course to the original of the sylvene and to his critical....That entirely reserve 6911. Would you be good enough to rearme your evidence, Dr. Ladzu, at the point at which we stopped before lunchean?—Fee. We will go on to the point in connection with the parity of nells. 1842. Have you quite finished with regard to the question of supply?—Yes. I do not intend to go further than to state that you will have to make use of the principle of compulation. That from some pornte stor may be undesirable, as it will be calculated the memoral to cause critication, but I think that after a while people will be surprised that matters settled down to carry and so advantageously. There is nobling so difficult to get at the moment in a former is heave as milk. You will get almost anything but milk, at any rule in the majority of there; and it is mar, as any one in the majority of turn; and I my firm conviction that if they were accusalenced see the poor properly supplied there would be improvement in their own condition. Sir Will improvement in their own condition. Bir William Butler was constantly harping on that—the change in the condition of the recole. The farmony own families are, after infancy, reared on the stoppy ten and white bread that the poor are fee on. My conviction is that there is an undue supply of non-nutritious food con he on advantage of the people considered the food that is valuable as distinct from food that is not valuable, but has been omary. Now, with regard to the supply of mills here fought sky of entering into perticulars as to I me tought any to the poor to get milk, because I am satisfied it is a complex matter, and I cannot supply all the reasons, because I do not know them, but certainly one of the reasons is the expensiveness on would have to consider questions outside the one of the questions that would have to be taken into consideration would be the great guil created between the coupleyer and the employer by the residence of the poor working people in the towns. I have always eattages in towns, because I consider the poor should be translated out to the sphere of their labour, under the porriew of those who employ them, and the old nameiationsof times who company when, and the our amendments, the numbering of which is responsible for a great many of the zerous like of the present day—would be renewed, and, in addition, the people who benefit by labour are the people whose property should pay for

issuer are the people whose property sheedd pay fits be readened, sol, of course, the residence code-sizes than is pald in reads. Having regard to the way to be a superior of the form of the part of class of tablour will be provided, and framers will not got dot of the dawn, which is a very complicated braineste. To its simple to key taked and will them again. Thus is not the using with the mean who has a number oil cores. He is on bettle-books from which brainess, and that in why a peak stray people have gote out of the business; but I mere now a large semalest of people petiting out of distripting that were not savery for it, breases elikologh the profile neight not be expensive, they are securit. The day which these has a command, they are securit. The day which these has on the Munter, so that he sad by you will have it SHIL. Do you not think that it is one of the difficulties

5643. No year not think that it is come of the difficulties in the solution of the penaltum of supplying miles the theory is the control of the penaltum of supplying miles of the penaltum of the control of the penaltum of the control of the contr

200

3846. What means would you alogs to have uniformity of demand, homes we know that the spoorer portion of the population are not always povident in their management, and whereas money may be available some days as the work, at may not be normaliste on others—I must shall this there are

3845. Don't you think that is a serious difficulty?— It is one of the great difficulties, so doubt.

It is one of the great difficulties, so doubt.

8846. And don't you think the conditions I indicate
do exist—the want of continuity of demand in the
supply to the poor?—If you managed through the
municipal body in the town and through the flural

supply to the poors—If you mininged through the municipal hody in the town and through the Baral District Connell in the country, the surpliss milk could be turned finto butter or cleam or sent to Dublin, and in that way there would be no lack of sale for the remain surface.

567. On the question of pure, you already trouble or bath. De you thill that in order to receive that the proof of the pure that the proof of the pure to the pure to the pure to the question of the pure to the pure

Sees. What I want is an exposulor of colation.

Sees. What I want is not exposulor of colation whether you consider his matter of couch or good important about the given in celer; to secure the more universal use of milt as a fixed for infants and growing abilitive?

—I suppose the most correct thing would be to say you. I suppose it would be impossible to say no, much as we start with the assumption that milk is

security.

(a) and I share now that the security I whose the security is a security of the security is a security of the secur

services, we have been devided. In the two should weakly high from the pulses? I solded two first of "Wife regards had proved and pulses? I solded the first of "Wife regards and pulses," and the third of the pulses of the puls

Dublin, three or four of the number, who would not ma Court of Appeal. I am of opinion that, of course, there ought to be a Court of Appeal so as to make it impossible for any rejustice to be done. Now with regard to the point raised by Mr. Russell and as courageously spoken to by him, I have to state that the present system of preservation is more than defective, present system of presolution is more than defective, and I Blink there ought to be a right of appeal to the County Coxet Judge occuliarities part of the modes of dealing with admirantice of milk. I will sy-nothing shout the local courts, not desiring to flag any oftons of anytoic except in the kinders possible way, but I will say that an appeal to the County Court in necessary. I gave evidence many years ago before Mr. Lewissa's Communication on maintary mainteand I urged very strongly that an appeal should be allowed in all metters, and, as fact, that anyone interested as spart from the public body ought to be allowed to go into Court himself. A couple of years ofter that, it was incorporated in the sanitary laws. tion to be added to a number of houses, and the result was very artisfastory autood. With report to that, I do not think, so far as I recollect Mr. Rossell's revisions, not blink, so far as I recollect Mr. Kinssell's revisions, that he referred to a enemby. My remark you'd he is allow an appeal to the Guesty Court. With that out the prevision for this analysis of the milk I referred to, I have nothing more to add dending with met-scell. I think this Commission, which I response use due to be Zhoullessy the Guntless of Abrillon, will must link a pictory the Guntless of Abrillon, will must link a pictory their Guntless and Abrillon, and must link a pictory their not use attheir higher were these son to province mace to see anticessor period was reasonable time. I can proposed to not any own pro-posals second to Mr. Rassell's. When the Cainle modition is freezer of the returned of the English Alistropate Act to Induced was peased, I did not get when to send it to Delbin, Belliss, and offer pieces, hereans I did not think that ether like them would seek for the powers contained in the Act, but I found afterwards that London took powers under that Ari. That is all the evidence I have to give, and I shall be That is all the extinces I have to gave, and I shall be able to survey any questions that may be stated of me. 3851. You have heard extreme made this meaning to the quantities of finement during properties—Vex. 3852. Do you think that would be a movint provide many in order to sector the privily of the milit—I do, but I must tell you that I must tell you that I am of optime that this but I must tell you that I can of opinion that the whole malk quantons will have to be harmful with a great althours, I do not, of eneme, say that single great althours, I do not, of eneme, any that single possible, to drive the production of mile altegether out of the marboti if engineers over made to education, and the whole system of importance not messagement in the state of the distinction devices will have only a remarked in the distinction devices. This desay invitions is a very delented conserva, and there has been a driving out of

gardening in the control of composition year to be been controlled as a superior of the control of the control

Dr. Trong Larres -29th January, 1919.

Commissions should got the permission of his superiors to enable this to give evidence, and if you do you will not regret it, because he has got a wast measure without the properties of the world to exhibite the properties of the properties of the properties of the used for each purpose to convenience with the imperian necessary to carrying out the Order-N-L do. They are made purpose.

This are nace midependant. The others that we importing these durine and malls shape for objected on the Boards that appoint them.

1960 I quite follow you. In the first place, do you think that the conversal application of any Order along the occurring outply to be instanted upon—For we that all the Orders see, in the main, the outcome of egistaths knowledge, on the part of the veterinary

department, sad see based on emmonantse, and I see a failed thoy must be owned out.

5556: I do not think you gathe caught my point. What I sussed from you was an expression of option as so whether it would be desirable that the owners made by the facel forcement board for the safe, southed of the mile preferred as a topply should be used.

as greater ——as they are modeled as paran community.

SSY, And do you think it would be possible to have them sermed not in an effected way and with authorizing thempty the break simulativitation, or would are the service of the se

5000. Do you hink it a reasonable recetorities us the peat of those centrolling the public health are the only that they should have power to visit the country state to the peak of the peak of the peak of the power to ensure that the rails they got is clean and the forecast of the site. There is another nation. There is a properties of rails that in naturally, without reasonable of the site. There is no peak that the peak of the peak

any authorishis in at, e is low a quanty than quasgood milt that his been shifterated. That it is a felf mind I would refer to at very pospleane, a 5809. You are not the only wisces who referred is 5809. You are not the only wisces who referred is 5809. You are not the only wisces who referred is 5009. You are not to be a very superior of the prove that a owner with a probabilistic backward within it of the to referred reconstruct and subpende to a test, wealth have been certified as subtracted." They must find the cookes of seeling with zero has a

Also move for the worst of the agents of an interpretable must find the mouse of stating with such a case so has. The first of giving goals to own product inferince characters of mile, but it might be of a very inferince character.

The CRUMBER—We are so the header-line of entirevery or that particular quantities, because it has not hear dearly authilined whither the freding given to the consequence of the control of the control of the consequence of the control of the control of the consequence of the control of the concept of the control of the con-

consumptions wanter the means given to the cors will influence the quality of milk. It is admitted it will largely increase the quantity, but whether it increases the quality is in dispute.

Mr. Witzen.—Not so far as grains are concerned. They are admitted to lower the quality and increase the quantity. That is widely recognise.

They are admitted to fower the quantity and increases the quantity. That is widely recognized a second of the control of the cold of the c

6861. Do you think that it would be an unreasonable imposition?—I do not think it would, having regard to the way that hyphoid fown is speed. 8802. Have you information from your own district, or have you heard of any cases in which the dissemination of disease was directly asseed by an Impore milk

SECS. Have you information from your ears district, or harry you hand of any cases in which the dissemination of disease was directly assued by an impure milk supply?—Well, I am not able at the greens incount to source that positively, but I would say that it is nearest that positively, but I would say that it is not himp that us quite section, though I convol by my hand on a coice although I saw in charge of a furnitude of the positively and the property of the it is a doubt of its possibility and

5893. If there is no equirmon of tree in any of the distincts scotling patients to the hospitals, do the local stakenesse make any inquiries as to the cause of the contegion?—Tex, and flay are local up to their piumid gla by as Dallin people.

3804. Br. Nomman—Your distinct, in it charfy agreeders.—I have no distinct, unfortunately. If

and q by she Direct people.

\$804. Br. MORIHARD—Your district, is it chasfly agricefured.—I have no district, unfortunately. I see not in the happy condition of a disputancy decise.

(890). The neighbourhood in which you reads, it is an agricultural accusing.—The great majority of area are negrectived.

are in great.

GREE, its these much malk produced in M7—A good ideal, but nothing lifts what it was. Serrest large damps have been dispensed with on recount of the expense and of the currently with on recount of the expense and of the currently of milk produced in th, however?—Yes.

GREE, is what next out of the district?—There is a

creamery in the form, and constants within two or three miles, and the Workhouse and County Inference into a lot of mile. Mr. Handley, the proportion of the creamery, exports oream and further lengthy. 3400. And there is a successful of milk among the poor people?—The same as distribute. I have been making implimes from one of the lessing boad inciders about

seek. And there are a colority of milit strong the porperpire—The seas colorities; I have been making operation—The section of the properties of the previous of estokeness stills, and as teld me that the previous of estokeness stills, and as teld me that the properties of estokeness stills, and as teld me that the properties of estokeness stills, and as teld me that the properties of the still in the still in the still in the section of the still in the section of the still in the power that it read before the Modified exacts I intuitioned the color of a many who had the

section, when the mean of the milk had cannot tell year, 68°21. Which became of the milk had cannot tell year, that was teenly-view years ago. He entuelty means forcered it and bushers, but the emplayers soled not got a deep of milk, and he had severely-view cover. If the second we have the second of the second with the second of the second with the failing that you have only to interact the trapply in order to provide the poor. If you had ten turns the amount it would flow through the secon chounds the amount it would flow through the secon chounds the second control of the second o

and a factories or weare now interests that have been as at those at present.

Deffi. What is the cedinary perso for make in year distincts—I pay 84. a gallen all the year round. I do not want it all the year round homeour I have goats. I will say seemelving about these goats as they have been membrated.

3874. Eightperco is rather a low poise for milk. Do you think that it could be produced commencially for that?—They my not. 3873. Here was but teleproducin in your distract.

then/y-Why may not.

60%, Here you had be proved in my your district—
60%, Here you had be proved in a dispeptive state
answell. There are two points I would like to referby, and thous one observe the quasit and the Evry state
to an observe the points of the contract of the conlarge, proportion of goods reprofit, and provide without
never dood in show Institut.

60%. The CREMENTS—Or how food "A"—Or have food
you, and wouldn't they would be dry for four mentles,

and those four meetics would contrast the mixed and those four meetics would contrast the mixed master assets when milk is searce. Geets cause the maximum amount of on meetic, and I sell, you that I am bothered with plans to diring the throwing proposables of my selfance of my selfance.

2677. Dr. Mccounton—Do you have the goats loose? We are datested with appropriate them, and they

We are districted with spanielling these, and they do muchiel noise that any patternal suvidinane. 8878 Do you better them?—It is a case of never reading.

5079. Do you see the burnless variety?—I have the burned breed. I get one from the mountains of McRievy, generated or milk the maximum, and aligny that over estited than that gest that coght to have been selected with perty. She did not milk a quart twice a day. 6890. In that a usual amount to give?—No.

ossit. With regard to the milk of the goar, whose opmans do you held to to its water—I thruck is in of a very superior (unity). There is an empelional amount of noisids, will there is an action did abler the Latin name for goal. It is no good as cream, and botter, I wink, in tea.

5882, Aud has no unpleasant tasts?-No. As to the Kerry cow, they would be excellent things in a way.

A pool Kerry cow will cost £10, and where would the money he get for buying cose for the whole of the labouring population of freim?? The Kerry cow will be subject to the same inconveneurs to which the goat is subject—it will run dry for a certain number of months in the year. What would become of the of months in the year. What would become of the poor during these months—months when the milk is poor during these months—months when the milk is it a hardship that police should be prosecuting people for keeping cows on the public road; but when on socident occurred to a valuable home, and a man scenario occurred to a various nome, and a man with thrown on the residude owing to a collision with a cow, I thought the law more resonable. You could not feed the Kerry cow on the renderer, or in our necessary or a see that the labourers have with their cotsore or not that the shourers have with the tages, even if you berned it all into pasture. fore you would be builted in fresh difficultiin fresh difficulties when peature and winter feeding, and to me that the people would not be without mills when the cow ran dry. Therefore I look upon that kend of thing as perfect drawingroom twaddle.

1883, Mr. Wilson,-I think you have alread brought it out that this problem of the scenesty of milk as the district with which you are issuitar has been a matter of very long standing!-Yes 1884. Your paper was written in 18877—Yes 1885. And the position to-day is very much as it 1886. Six Surway Woomponer. About what children are noted by their methers.

You would not think that mins-tenths of them would be?-Well, I do not think so. I have not may 5888. I take it you think that in most cases it is the right thing for the mothers to more their children? To overy case, owecast the mother is diseased, 5880. The Changers.—Thouk you very much be

Waxsuss .- I only hope that there will be a beneficial outcome of your labours, and that your ropest will not be put into a pageon-hole and left there. The CRAMMER, -We can only rely on public opinion to see that that wall not bargers, Dr. Leffan.

debatable quasion. Some selectivity say that it does and some that it does not. I think that Professor Thompson, when before this Commission, said that traffes ought not to wrigh with the making of some effort to improve he state of the milk, which at present is dispraction costs of

milk?—Gives a creamery plant, the additional plant necessary, excluding bottles and cories, would be about 5901. Mr. O'Birmer.-About the root of purferovaton plant?—Yes, about that.

2022. Does it take the place of pasteuming plant? fell, that I am not quite sure of. 5933, The Cauman, World your process render rendeur matter unnecessary?—It is partly postcursu-

2904. Except that the heating is not so high?-That is 90.

906. Mr. Witzon,—What is meant by the pheson-particuranties." I redevelood if to be the killing of basteria? If this heating is not brought up to this point if has no obtain to the title. What do you mean by "the pacterization point."—What I ment's as that the milk did not tools so if it had been belief That was all I meant to convey.

3007, Mas McNent.-You don't know to what best it is subjected?—It is under 150 dayrors Fabr. 2908. For how long is that lorse up? -- For short half on bour. That is practically pasteurisation 9909. The CRAMMAN, -I rather take it that you idea was that whereas this process would socure practically the effect of pasteursation, it would not be selprefet to the injuries which pasteorisation is supposed to inflict on the salk that would be solvered in the process?—I believe that the process will simply me process.—I believe that the process will singly preserve the milk, hill a certain number of injurious hapterin, and that the milk will keep undefinitely. 2020. Of course, that is one of the strong views at favour of your acheme—the keeping properties of the milk?—Yes.

5051 To would undoubtedly minimise to a committee oble centers the difficulty of providing milk in remote distribut?—Certainly. 3812. Have any tests been made to determine the keeping properties of sallk to treated 8—If I one believe the magazing director of a large Steamship Company. the milk has gone to South America and Lack again and it was should by the directors, and they say that. for as they can judge, there was nothing wrong (913. There is no reason to impage the security of their statement. It is not an interested statement in any may?—No.

Mr. Transa FALUE, L.F., exampled,

6800. The CRAMMAN.—I understand you are into-rested in land in Co. Terone, Mr. Palle?—Yes. 5891. You don't reside there?-Yes, for shoot five months in the year.

2002. Do you should there is any considerable searcity of milk for the working classes—bore you any means of sending an opinion on that point?—So for an my own men are concerned, there is no searcity, because provide them with milk or give them the grass of a 5860. Do you know saything of the condition of the other laboures in your district who are not so fortunate as to be in your service—have they get similer factities?-I think not. I think they depend on their

5884. And the result as that they are not able to secure a continuous supply?-Not a sufficient supply 4800. And that some people who may be financially able to purchase milk and desire to have it might not be always able to server 14.9—What is so.

5896. You have strong views, I take it, looking at the summary of your evidence, as to the methods by which the cleanliness of ralls rould be secured - Yes. 5807. Would you be good enough to give the Con-mission the benefit of your views on this periodile quotient—I am strongly of opinion that his first thing is absolute decaninesse, and second botting, and I think that in milk used for demantic purposes the eream should be broken up in the milk so that under no circumstances could it be taken out. That, of ourse, in a mechanical process, but it is one that course, in a mechanical process, but it is one that works fairly well under experiment. I may date that I have for many years been interested in the multi-macrism, and have had many experiments carried out with a view of consering a fresh, pure supply that would be from from nonpolities or deteriorates during the period of transit between the producer and the con-somer, and I believe I have a process which will ensure this on the following double lines —(s) The course this on the following timple times —(b) the thorough elemination of all soled particles which may succeeds elementation of all some posteries which may be accalentally present; (b) the district poster of all the large far pickules and their permutant diffusion throughout the milk so as to avoid any inequality in remarks, and by assuring in a concluint asparate presentative attemption under moderate present. The milli-is not heated up to the pastourning point, and no chemical change takes place, which would affect the notifities qualities or flavour, and no liquid or solid 2008. Has it ever been carned out generally?-I am

not aware, but it has been carried out providely, and take it up. B would have to be done either by a huge Company or by a Government Department. 5600. Does it lead to any deterioration in the food properties of the milk?—I believe not. That is a

Mr. Teomas Falls,... 20th January, 1912.

5914. Is milk procumble that is treated in this way 5015. In say country?-In England.

2016. In one country—in Engance.
2016. In a tuned by such acricos as you have lesteated, and has it been found to hope a sufficient length of time in order to access the being fifth for fixed a much after it has been subjected to the process—This is the only instance. I know of—the milk that was not to Revent Agree. I am not severe that their was not to Revent Agree. I am not severe that their was

2017. It is only in the experimental stage?-Yes. 2018, Mr. Wilson,—Milk breated that way has reached beyond the experimental stops in Holland. It is shipped to Java and Hong Kong for the use of people

Mr. O'Bours,-What is the name of the process? Mr. Witson,—The makers see the Vasca Milk Com-pany. I don't know that the actual maskinery used is the same, but it is on the same principle?—It is

8019. It was not quite with the intention of rendering its export possible that you took up this process, but salter to grand apazant the possibility of milk of various qualifies being subjected to inspection, and the possigialline terms surperted to inspection, on the possi-leffly of surplets taken under under acceliates, sub-petting the vendors to procession?—That is one coasts; but my obied object was to try and henefit the look cerameters. In the country resembles are hardy able to five. The futures have such a great

deal of maney in them, and they are looking around for a means of selling their milk at a profit. The amount of nuste that goes on in terrible, and if saythuse could be done to stop that at would belt them 2020. Do you suggest that it would be another outlet

for creamery industry to emback only-Yes. 5521. And possibly in some instances it might be more profitable than butter?—You. 1992. It would have the effect of rendering it possible for shapkenpera to stock milk as they do bea processe for shaperopera to store mile as they do loss and coose, and rebal it to the ordinary purchaser just as they might other necessaries of late?—Yes, and

that the shummer would get all his malk with all the 6603. You think it would course uniformity of sample, and that parts of the mills would not be riches our cream than that which was supplied to another our cream than that which was supplied to another our court -I believe that in absolutely correct. 5924. Could you give the Commission any colorate of the cost of carrying out this process?—The principal expenditure usual he the Bonopresier, and that would depend on the account of milk treated; but the ordinary

local ereamery would want a bottling machine, fixing reachine, and one other machine, and it ought not to aggert to more than \$300 or \$400 for the 865. With regard to the power necessary to work it, have you made any estimate?—No; all treameries

would have either engine or weter-power. 800. The power at present in environce in recommeries would be sufficient?—Yes; an average engine courts to be able to drive the machine. A

18 h.p. cagine would be quite sufficient for the 5027. Mr. O'Bune-That is very high for a creamony. In my own erosmory, where we have no auxiliaries, and when we remainle in the summer a bill over 4,000 mile.

a day, I shink a 20 h.p. engine is all that we have. I do not think myself that is enough. A 28 h.p. engine, I should say, would be a good deal higher than that used in the average recessory. 9728, Sir Surwary Woodspring.—I reposes when it would not be weeking the creamory it might work this present?—You. 5939, The CHARLESON,-Has now proposition ever been made to any erramory manager or commilier to embark on this process?—I have saked Gorin commers in Co.

are trained chemists an lose on their worl a mail grant of meany sufficient to equip them would not be builty spent. 930), Mr. O'Beggs,...I thought this process was in a state of experiment?...That is all. Let them experiment on it. MGE. It is only experimental as far as the ex-mercial side of it is concerned?—Yes, The late ? Cleave told me be was greatly sitesoted by it, and that revolutionise the milk trade of the world 0032. Sir Senware Woosmorns...-Would it cost £300 or £400 to introduce it where there was a 28 h.p.

counce already?-- I do not think they outby to emhark 8033, Lady Evrzano,-Is there anything added to the mile by this precess?-No, there is no preservativa

8634. Has the inventors been patented?-Yes. 5535. Is it your own idea?-I have got the patents

for it in my own name. 5606. Have you ever approached the Department of

1607. Sir Strwart Woodstorns.—Is it the same heat that is used as in pasteurising?—I do not know

5008. Would the ordinary cark answer for the buttle?

—No. The German heer bottle cork would be the

5939, Lady Evenaup.—I think you speles about the separated wilk. Can you have separated milk from this process?—Milk that is for heurshold use, after it his gens through the three process—draming, pea-suring and fining—sames be reported. But milk that is for making hatter, evens and choose good through only two of the processes—citaming and sec-

1940. Then it is possible to obtain separated milk by 1960. Then it is possible to obtain appearated milk by your present?—Ves, and that I look upon as a very good such of the former. The expanded milk you each by them the conversery at a penny a glion, and what I would hope to do would be to treat it and favore 55 with some feet income and sell 18 as in heaversor. It would make a must agreeable drink, but better than either here or termine. Burthe 18 for in

better than ginger beer or inmosafe. Buying it for a printy a guilen-sexteen half-pixts-you could sell it for a hillpenny a hell pixt, and have a reasonable prefit, in which the farmers could share. 5941. Could you make butter from the milk in this repress?—Not if the milk has been passed through the

There.

6942. You cannot make botter out of the milk made in this way?—No, it is only for domestic purposes. Justice the suppose of the suppo

could take it out. 5965. You have tested it as to its keeping qualities?

2007. In there any alteration in its flavour?—It is a little thick—at least if remains on your polate, but I think that is owing to the remain that remains, but leyouf that there is nothing worth speaking of 1948. The Charmon,-The flavour is not impaired? No, unless through excitoscoss, and then the bottle -30, three treequ carriedows, and the tile content of the distributor by the contents.

94th. In the distributor three part of what we may call the pasteurising machine 7—Yes.

9250. Both go together?—They are separate

sections.

3951. And the cost you estimate furbules the onice difficult plants—Yes.

5952. The disintegrating plant and the pasteurising 3602. The stransgraugy pass, and the possession pleats—I assume I start with the creatury plant, and that includes the cleaning appearities and the engine.

6003. Lody Evenano.—I don't quite see how you can make aspearated rathly from your process. "We will Br. Tropics Farra, 20th Jamery, 1912. 4664 Dr. Meorman,-Do you

appearation or only an arbitrary of £500 to the plant in httle rural districts.

1905. This milk is constitute for the consumption of the people about you... Yes. For immence, I would like to write to a creamery measure and say, "Send and the empty bottles could be returned

5936. You have this appearant in weeking order at persent in organization, have you?—There is note of this plant working at all now. I get an introduction to the pensage usuages of a large male distributing firm

matter. I thought there was no use in fighting against all the distributors in Lordon.

5908. If it could be sold at a reasonable price that would be a great point for poor people?—Yes. 5000, Because, of course, your small bottles you proportionally more than your larger count-Yea. 2060. Sir Stroward Woodwood,-I take it that the then has not yet been constructed for this process?

395). I take it a reyalty would have to be charged for the use of the patent?—Yes, and give the connerties a largue to work it, and if they work it improperly

5962, Lady Evrnann.-If the Department 8983. The Cmamuye,-I exppess all the plant could

2054. Are there different patents covering the different processors—My patent, I think, covers the whole thing, but I would not advise the Depotement to ruly on the patent. You never know what they are

8955. Mrss McNepp. -- I did not gather whether ice was necessary for the keeping of the milk?-It is over, the Charman, But it is not percepted as part of the process that it must be tend?—No.

2067, Mass McNante.-The sulls that was hapt for 5968. Without may special care?-You 9966. The Champion.-And it went senses the

equatur as well?-Yes, and owne back. ID 8 YETY POUGH WAY.

2971. You have not had the complete engine and plant and everything ranning?—No. The experiment was done in a ruty crude way.

5073. Do you describe anywhere the milk goes throught—I that not describe it because I

Mr. Joux From exemined.

5933. The CRABBER.—Are you Deary Inspector in North Dubba Rural District?—Tes. 5993. Would you knowly tell the Commercian what exactly the outloon is with regard to the inspection in your district?—I have severely defines in North Dublin, 2004. In the first instance, you make an inspection of the byre to which the cows are kept?—Xes.

did not think the Commission would have gone so fully 5975. You say you could get all the machinery necessary by telegram?—You.

5974. It is only a combination of various thingst-

100. Mr. Wilson.—No one has yet his upon your precess combination of existing machines?—No. My patent covers oil the modhrey that is necessary to the weeking of the process. They are all separate

2076. There is no machine of your own inventions.

No. One is the invention of a Frenchman-it is the bust fixing machine that I have come seroes. 

5978. Ludy Estmano. You have the petent right for the United Kinedom? -- Yes, under the new paint

5979. The CHARMAN-Is the treatment the disintegration of the fatty portion of the unik?-That is one of the grost points.

\$600. Thus there is the question of the posteurius. 1961. And the question of bottling?—Yes—these are the three; but I throk the greatest of all is the breaking up of the butter fat in the milk so that the cross

cannot be taken out. 5982, Mr. Wilson,-The first stage is number the

2003. The next thing is to employe the milk?-Yes. 5984. And the third is the process of pasteuristof-

the lifling of bacters ?- Yes. 5985. And the fourth is the bottling?-Yes. best bottling muchane is only 480, and it bettles 100

5986. Dr. Moseman.—Do you put the surk through the separator?—Simply for elemning purposes 5967. There is nothing but dirt removed out of itiyou put it into a hurket of water it does not dis 5988, Mr. O'Estins, -- Does it posses the water? -- I dan't know. It has been proved that the refuse is a creamery passened all the fish in a rower in Westerk.

5989. Mr. Winson,-What is the meaning of the 5960, Lady Evenues.-If the Communica ask tit Department to make the experiment would you along them to do so?—Yes, most willingly, and that is viry !

have decided to come here to-day in the hope that the 5991, Dr. Meorman,-Would this process old to fin cost of the mile?-I can find out everything in a costs. of days. I would not like to state sprthing realess ! of days. I would not like to state anything rules a was absolutely sure, but the cost of the homogenizing machine would depend on the size, and it waies from £100 to £1,000. I can give all the unformation to the

The Cummans.—I would be glid if you did so because it would strengthen the hands of the Commitsion in bringing the possess under the notion of the

2995. And examine the conditions under which the

cows are lepa?—Yes.

8006, Whether they are sufficiently well looked after, and if they are kept in a clearly condition?

5007. Whether the manure is kept at a proper dis-tince from the hyre?—Yes. 2008. Do you make may inspection to ascertain while condition the uniflers are in Yes. I set that ther have seep, water, and a towel to wash their hands. They mayor know when I shall call.

Mr. Jony Front, 20th Javaney, 1910.

seem; You wish jost at will?—You. One of the size owner able to determine what you won't be there?—For. I have now you ghat they won't be there?—For. I have now you ghat they cover as there in this to oversty distance.—Ower is they seemed, they in the seement of the amount of the covers of the seement of

1607. Do you make no imposition of the summalticurables to association what confidence of health offition of the summary of the summary of the sumtured that is for the year of the summary of the 1600. Do you over direct his nativities to the foot in nor case, that you now a resistance over 2.75%, a 1600. Do you over direct his nativities to the foot many of the Relatations.

1600. So that he is immediately on the study of you was a summary of the summary of the study of you was a summary of the summary of the study of you was a summary of the summary of the summary of the policy of the summary of the policy of the summary of the summary of the summary of the policy of the summary of the summary of the summary of the policy of the summary of the summary of the summary of the policy of the summary of the summary of the summary of the policy of the summary of the summary of the summary of the policy of the summary of th

of m is active to the violency output of the comcine theory por ever individed possecutions— have, one of the possecution of the conlating line Sury replaced.

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hat they are beginning to blose that it is not like additions.

6009, Do you see any meessify for bienning corrections of the best of the beginning corrections of the boundary of the best of the see at a consecution of the billion and Malir Shops Order as very stript as as, and if believe it would just some pools out of benieves of the leafunctains even made servers.

6100 Hes the refundations of the Order is year.

only has the aestimation of one of control of our district been expossible for hunting the question of sure manipuls. As we a bot of parting control of the control con

No, only assest carso or their gazens a day, but want it was a convenience to the people of the distinct to get it. 6033. And a bardship to some of thems when the sale was abandsond—less. 6044. And a made it meet different for them to get a

outs. Do you know in your distance whether or not the pool people nor make to pot a supply, even when they have summy to buy it?—I do not think no. 1916. In these any perions of your distant in which is in impossible for the head of a family, having, a unmined of different, to purchose milt and orded not get it for money?—I can say that in Ralgriffo and Castlelonek mill its sensee. There as no registered dainy in

a for many?—I can say that in Engriffa and Carlilanck rulls is searce. There is no regardered dairy in Artana.

6017. Where do they get their milk supply from?— I den't kiner, comput they get confirmed rulls, or from possing one, comming as from Coolock.

possing one coming in mon converse.

(608. The, 6ox's 601, it shain, an subt?—I behave
the would stop to sell to anyone who is able to buy
it continually.

(609. I mean they don't sell premiserously?—Ob,
to In Fingles there are fronteen drivy one that pocut trace a day, and they won't stop for a man with

6000. But if there was a continual demand they would be salling to sell even in small quantilise?—
178.
4003. The variation in the demand is one of the difficulties?—I'es. I think it is purely and imply that the poor people might not have the many to key it.

calitats—Tes. I think it is purely and simply that the pose people might not have the smoot po to by it. 4023. And the result is that they are constitues always to do without att—Tes, and they have to bay the continued units on the property of the contended units. The costs money—I often sait the people the question why they buy it, and they say it keeps

the question why stay buy it, and they say it knops longer. 6028. If they could procure fresh mills you think it is very means to purchase condensed milk?—They

don't have the messey, and whom they went suff they exercised get it, and they have to tay conferred mills. 1992, it is made that they have to tay conferred mills. 1992, it is made and the reasons why the regardy of mile in more in Yes. 1992, they see there of shows the message in the transfer of 1992, then you thinly if there were no regular domaind that they have been a supported domaind that they have been a support of the state of 1992. As a their many goals kept my your district—10 can Ellertenia Divisions that we weekly be above.

that they would be mist to get a wiggly N-Test.

Let one Electrical Physics actives would be should all gotts, but they are a gent animous to the would be should all gotts, but they are a gent animous to the alterial, and get the property of the states, and let got does provide only on the read, and are motived by the boys and Orgit. They have not steen feet gotts and the motival to the boys and the Ampho-Nalmar-Na
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-601. Too think it explit be possible that if a good six was got kery would take servandage of 83°—I. 1000. Lis there serves in the recalibrathical who wend here non-1—cannot say that, because 1000. These no bearing points (1000. These in bearing spots). The control of the

Shope Order no earried out in your distincts—Yes, as (60% Ard) you notice on improvement)—Yes, as was improvement.

ERRS. It shere a good deel of normity in your distincts—Not a good deel. It would say there is store (600 The purple of the

de during the summer?—I don't think so.

661. In point of box, you don't de saything competion with there?—No. I won't be live months apparent with there?—No. I won't be live and box.

862. So in a sa you see presently concerned a your Council, you take no responsibility for the se

that come out to greas at your distinct in the assumer?

—No.

6045. With regard to discussed statist, have you discovered say in your distinct?—That is the work of Mr. Roburshou, the veterinery surgoos.

6045. You are the first person who comma in contract with the cosy that is #18—Mr. Rathardann is as often in the district as I rem. If I find any "swing" "swing".

entitle I draw has astention to them.

6045. Con you give us an idea of how many of
these you have discovered and repeated on?—Dely
four.

6046. Out of the thousand?—Yes.

6046. Out of the showmend?—Yes.
6047. Prestically you find them in a satisfactory condition?—Very.
6048. Lody Extraon.—Xon say that you den't impect the cuttle that come out from the day as the

some re-No. I don't.

soften M. O'Brany.—Ton don't impect the entitle at
the order of mission the bound?—I have so inspect
go the control inspect the bound?—I have so inspect
go the control in the bound of the bound of the
property denied and the blo to the of the control
property denied and the blo totte is (den.

6059. What do you foo during the summer when the
errors are on greath. We have a but of week to get the
solver, so that only with the contract of the contract
and the contract of the contract of the contract
that the contract of the contr

d and I find I am busine in the aromanse that is the winter. I have to get the alterations done while the cover are out.

6 0331. You don't know at all whether the rows' olders are done when they are out in the field "—No. 6032. Now for what nort of condition the popular raffling them in the fields one"—From presental

6043. It is not part of your business?-- I don't think

3 C 3

### Mr. Jone Pagen .- 28th Jonuary, 1912.

6056. With regred to the cows that are sent out from Doblin, you carnot tell whether they are properly leoled after and cleanly milked when in the country. one that inspects these estale.

6065. The owners say that their men have all the facilities that are necessary for eleming their hands; but, on the other hand, we have had some evidence or boarsay that it was shockingly bed-that the mon along

under the curts that bring the milk out, and that sort of thing?—I would not go so fay as that. 6056. The Chamman.—Is it not really a fact that 6095. The CRAIMME.—Is it not really a fact that very indifferent provisces as usually made for the dairy boys when they go so the country?—Sec. 6007. And that they have made evadelines that are excitately not combustive to cleanly or regular habito?—

6062. It would not come within your province in non the conditions under which three men are bound? —No. I think it would be more or less the Saniary Officer's duty.

# FUTURE SITTINGS OF THE COMMISSION.

8063. The CRAISSEAN.—at may be of interest to the public generally to beam that the Commission have acceded to vail the following context. They propose helding a Briting at Belfirst, beginning on the 18th February, and continuing as long as may be necessary, to take the evidence of the witnesses that attend before

the Commission there. They then propose to viz Cark, and subsequently Limentek, Galway, Newy, Loodcoderry, Killybegs, Slige, Castlebar, Mullinge, Wesford, Killseary, Fullamore, Waterlord, Toppeney,

Yes. I cannot say that for the people frying as any

6000. The cow-keepers usually give them some da-mantled house, and no femiliary?—That is a fact,

6061, Mr. O'Benny,-You don't have to report on that?-No, when they are not my own oows,

5060. Them is really much to be desired?-Yes.

that is so, 6009. The cow-keepers usually

ets district.
6058. I am talking of these who only proture their cown us your district in the sommer-is countries of the deary boys who go out? It m, my,

The Commission than adjourned to Belfast to the 18th February.

# SEVENTEENTH SITTING.—TUESDAY, 187H FEBRUARY, 1912.

The Commissioners not at the City Hall, Belfast, at 11 s.m.

Present:—P. J. O'Neill, Eq. (Chairman); Lady Everard; Miss Margaret McNeill, Sir Stewart Woodhouse, m.d., Alex. G. Wilson, Eq.; and Dremod O'Brien, Eq.

S. W. Strange, Esq., Secretary.

#### Dr. Bosser Tromson, M.S., exemined.

6064. The Casmann,—You are Chairman, Dr. Thomson, of the Fulbir Health Committee of the Belfoot Corporation?—Yes. 6066. And a medical practitioner in the Coly of Belfort?—Yes. 6066. Yes are, I take it, funding with the simulsization of the Fulbir Health Committee in this city?—

1 cm. 6007, Do the Public Health Committee control the administration of the Daintee and Milk Sheps Order— They do. 6008, World you kindly tell the Commission what arrangements have been made for the pripose of

arrangements have been made for the propose of carrying out the Order in the Gody of Beffarst—We have a Voletinarian in the first meisson who imposed if the core, and the nor-shade are imposed bosistes. The Voletinarian is assured by a Deary Imposers in the Conference of the Conference of the Conference as to the englishmen in consoline with the coverber, the most of the Conference of the report of the moster to the Voletinarian, and the Voletinarian

wants the place of the Papler Health Com970%, and Septem to the Papler Health Com970%, and Septem to the Health Commission of the Health Commission 2—Uppr see. It floath to the Health Commission 2—Uppr see. In the Septem to the Health Commission 2—Uppr see. It follows the Health Commission of the Septem to Septem to the Health Commission of the Health Commission of the Health Commission to the Health Commission of the Health Commission of

Fuple are quite reasty and valling to carry cot its precisions of the Order as a row-enerth cut by your 600%. And the supervision ownered out by your officers is relation, without the sid of prescritions, to endure compliance with the provisions of the Order N-That is so. 6091. How the Publis Health Commotice any reason to complian of word of re-operation on the part of the

to compleme of work of co-operation on the part of the reagazation and residualities in the surrange out of the Order?—I have complianed servest lenses of the inselecited of the control of the common to have peculiars of the imposed. Here we get a fine imposed of selface over a long or breaked offer. Would thus he we obthered on a procedur eicernisation that the function of the control of the presentation of the control of the contro

signer pensists than we are.

6004. From the same tribunit?—Yes.

6077. That secons rather difficult to understand?—I never could explain it, but it is a fact.

6078. And there has been a facting amount those resemble for the correct out of the Order that when

That is so. 6009. Returnily that fact would make those engaged in the leads more eardest of processions than slory otherwise would be if the possibles were more severe? —-Yes.

otherwise result he if the possibles were more several —Yan.

4660, And it would also lead to greater need of one and diffusions in the ediministration of the Order?— Yes, that is so, 4660. Has any contecuts of infectious disconse even been bessed to the sidk oughty in this city within fectors, years—Yes, several contecuts have been fectors, years—Yes, several contecuts have been tened, but so far as my recollection goes, all those outbreaks were size to milk repylled from the torrounding districts contast the city.

1668. The milk copply of Bellman is not entirely raised within the city—No; apached course from within the city and two-thirds from outside the city.

1668. That would be about the propertion—Now.

Since Day and York Delta Andrews (1994) and the Section of Section 1994 and the Section 1994

and I don't how the say sersugacous have been made, be in the near three there will be me made, be in the near three there will be me made. The interest of the mean three three three the me of the mean three th

tion of these outside daines.

6565. Has any pressure been brought to bear on these outside Loos Authorities to enforce the Order?— Yes. The Lood Government Beard sent a circular to the various Lood Authorities stelling this compilaries had been made that they were not cartering the Order, and then if super were not staken to enforce the Order they would be compelled to put into operation the 19th Bertims of the Tuberculous Prevention Act.

of cost. Has that circular had any effects—I cannot of really say.

4668. Has 31 only been issued recently?—I think the circular letter was issued after our first noterine with the Local Government Board in 1996, so of no spite of that threat of the Local Government — Board sone of the residue, Authorities, are not corrying.

out the Order.

10 0000. From what area would you say that the units and supply for the City of Bulbut as drawn?—The greater part of the milk supply from outside ources comes

Dr. ROSETT THEOREM.--18th February, 1912.

from the sees under the jurisdateous of the Contincently lineal Potation Council, the Elithicatory District (2000). Here any other Local Authorities analyses of the Council Council Council Council Council Council (2000). Here any of these Local Authorities analyses of a Veteranary Impositor C+- Intend they all the reserved the Council Council Council Council Council out interference in much that they had contine placedate in their district successing the people their as placedate in their district successing the people their belonging to the Billibouruph Russi District Council (2001). That did not exhibit one very adout describe their council Council Council Council Council Council (2001). That did not exhibit one very adout described

to co-spirate with year—No; they won't co-specific at all. As a matter of that, they remard our interference, 5000. It seems rather an unrise policy, as they are dependent on the people of Belleds for the sale of their milk, and when they do not supply milk under hyginize conditions the Fusion Flat Hauth Authority of the city must interfere 8—Yes. 6000, Yan stated that disease had been fraced to the

minic measures—as.

6000, You stated that discose had been traced to the
mill's upply?—You.

6000, You that milk drawn from the city or the
country area?—The greater manker of course according
the danter cuttiled the city. For makiner, we had
outbreaks of hyphical and dightheris undoubtedly

traced to that cause.

60% And did your Public Health Authority endeayour to import the source of supply?—We impected
the milk supply. On one occasion we were refused

pertunes so omject.

One. Notwithstanding the fact that the outbresk of disease was directly traceable to the milk supply derived from this place?—We had remain to believe that the disease was texasible to this milk supply, and we were reluxed permeasion to inspect unit me entered in by a magistrate's order. We discovered a

soy who was a cemer of depictions.

6007, the was congared in the milk trade-enganed
as one of the asserunts an the employment of the milk
was about thirteen or foreven power of the
6008, Was be adopted to any tent?—A wend was
taken from his throat, and it was cannined more
taken from his throat, and it was cannined more
taken from his throat, and it was cannined more

taking from his threat, and it was anothed morescopinally, and the bould were found.

90%. Did the root return superiors in that conf.—
10%. What return was before at regard to the militopyly—The family of the warder were sent away, and the milk vasuels and the precesses were distritioned. The family of the kept ways until the warder footed. The family was kept ways until the waveler

Most hypothel even becomes and in the comways—It has been transfel in the same very even yellow, a shorter's certificate was produced that there was no periodic control of the control of the connection with this charge was supposed to have a cold, republic Horneston and the control of the connection with this charge was supposed to have a cold, republic Horneston, the control of the theory of the control of the darky, and a great number of same of typical fewer of the control of the control of the control of the darky, and a great number of same of typical fewer (100. The this principle charge, the con-

didd. What action was taken by the Public Health Authority—were all the employees unlessed to the Wildl beth—Tee, I understand as 0.904. Pending this, was the milk from this particular dairy near Into the city as unsubanderies the

cults daily sent into the city as usual—during the period of suspection e doubt was the milk still discommented through the city?—It was. \$150. De you think that the Public Authority ought to be conposent to prevent the sale of milk when a case of ouspipous alone, pushing the final communities

timik it would be very hard on a dairy-hooper to suspeed his trade.

6106. But is it not a sensus thing that milk holan with discove germs should be distributed to the public?

—That is so, undoubtedly. I don't know of any

"That is no, uncloshedly. I don't know of any subbority to stop the sale.

6407. You think it would be too dreatic a remedy to apply \$-1 de, but I setwinty say that his Leed Authorities coglis to investigate, and make a report or soon as possibles and I kinst his is one of its urgust reasons for liberty of imspection without was ing fow the magistrate's cetar, and that in what we contourfied for in the Public Health Committee. Surposing a thirty theory extract suspections, you would be perfured to the surposing the disayment because the bast's order so show cames why the rulls whisted not be stopped. See this with the surposing the surposing of the surposing the surposing the surposing the surposing million sould be the components to each indicate in a million sould to be empowered to each indicate in a

mittee ought to be component to set instanter to a case of that hanf — I do. 6009. Has any case arisen within the city in which disease was traceable to the rillik supply)—I thank es, but I see not quite familiar with them. Too Modeol Suppentionaled Obser of Hestith, Dr. Buile, will be able to give you more information on that

Olio. Betweeing to the case of typhoid carriers, do you think that it would be unconvenible to have all this persons engaged in hardling milk analyseded to be Wolfal test an order to ensure that no typhoid carriers were engaged in the business?—I think it would be a very engaled; theng.

Olio. What view do, you enterious with reserved in the same of the control to the control of the control of

were entails theng.

OIL. What view do you entertain with regard to the
feeling that the delignment and his employees would have
on the subject? Do you think that they would object
to the application of the seaft—I don't believe they
would. They might of feet. They would get
clusted to these things.

of control to these through the control that the cat. SHE Yes me quite clear on the point that the cat. SHE Yes me repite clear on the point that the cat. side Authorities have not resulterful any clear to co-operate with you in trawing the distance to the categories when the milk in their distract was suspected of being the cause of an application—1—are very serger to any than every obstacle was thereon in our way by the Rich at Burst Burster Courage to control the categories and the serger of the categories and the serger of t

took Rural District Courses are composition with the opposition of digitableria.

6113. There's you kinck it advirable that a unaform rule about a apply, and that the same method of an armonia of the course of the unaform the armonia of the course of the unaform that a course of the unaform that a course of the course of the Danass and Carolade Order —Xer; and subset the Danass and Carolade Order —Xer; and subset the Carolade Government Ross.

appears support tange concerns on a properly confidenced, but a properly confidenced, but appeared to the animos Mal. You are both Authoritis would not had to written administration-of-th would not lead to written administration, and the reason in the first mature is that it is not of much interest to the Lee' Authorities. In the second plate, the formal Britantic Commits are composed, to a great extent, of people

conforce the Order.

6316. Would you be in favour of having the Order

6316. Would you be in favour of having the Order

administrated by a Gaitral Authority rather than by

6316. The order of the Order of the Order of the Order

6316. So that the Order was refreed, and I would so

6316. So that the Order was refreed, and I would so

6316. So that the Order was refreed, and I would so

6316. So that the Order was refreed, and I would so

6316. So the Order was refreed to the Order

6316. So the Order of the Order

6316. So the Order of the Order

6316. So the Order of the Order

6316. So the Order

fills, Quite so. Would you be in favour of haven so officers appelinted under the Daintes and Mill. Shories being produsseson) mere—"Votennary Surgoons"-[ell, out sill.
6117. One for each district would be sufficient?—No

old?, the fee each distract would be rufficient?—No has matter of 600, you know that there are previously as a matter of 600, you know that there are previously of the feet o

6113. Provided be has the assistance of a qualified Veterinary Sugaeon whosever he may need 25—Yes, 6119. Here may pressurations been instituted with regard to the want of elembraces in the labels of those congred in the handling of the milit—Yes, there here been protections for duty lands.

omposed in the handling of the mility—Yes, there have seen prosecutions for dirty hands. 6120. What not of penalties were imposed in such mass?—The inspector will give you that information.

Dr. Reemer TROMSON,-13th February, 1912.

(333, With regard to the health of the core, may our Veintroury Engelor in the city over reported to your Febbo Health Committoe that annuals suffering from clitical telebrootees were supplying mife within your area—like his topoto a proper property of the control of the cont

Vectorizarias will deal with that in his evidences.

of 152, I would be know four you, as Children's

of 152, I would be know four you, as Children's

was a proper and polisious coperations of public briefs it

was a proper and polisious coperations of much normal in

any the endy with milk, and probably he a normal of

include to the public as thorpy—Yes, I think is postifable to pay noth compensation whom we compell

where the amount has been also graphed for the purpose

where the amount has been also graphed for the purpose

where the amount has been also graphed for the purpose.

of food, but this me a case where you compel simplifier, and I think that companisation in that case in jointlefield. And the public laws no right to complain at the cost imposed on them by mason of the shoughter of an eminal under the conditions you describe?—They have no main to occombine. There is quit one other

opinion the milk wooder could to be becaused.

6126. If quite everlooked that point N-Ton, I think he ought to be becaused, and the things that I would take into combletenion would be, feet the remit-character, and second the suitability of this premises for carrying on the leads. I would impose the consistent that if a near was proceeded and consistent on the second that one was proceeded and consistent ones.

withhauses.

(193) You would put him not of the trade?—Yes, if he was convicted more than, a certain number of contribution of the properties of the second of the contribution of the contribution of Health should be provided by each support. We shave no right to be provided by each property with start not been supported to storage of the supply country to start a start proving the storage of the supply country to the start at the contribution of the supply country to the start at the contribution of the supply country to the start at the contribution of the supply country to the start at the supply country to the supply country the supply country to the supply country to the supply country to

from the country, and became dividuality agrees in the city?—U.s., and we have no might to demand from here this course of his supply energy we have recorded betwee indoorsand dishness was enough by his millisipply.

The course of his supply energy we have recorded by the million of the course of the supply of the country of the country of the country of the coupty him, and that that impairs ought to be well-till to the Medical Office of the Local Authority?

available to the Medical Other of the Local Authority?—Tra.

-Tra.

6199. Lady Evanture.—You say that there is no power to go to a rudk vende in Bellicht and all hist where he obtains his cuffit?—Tra, except we have reason to belyer that unfertions those has arisen from his

Supply. So Local Greenwest Beard efficient Mrs. Smith, the Local Greenwest Beard efficient, that under Arthurk 20 of the December of the Control of the Cont

note.

618. It was residing from the Local Government Board witness we extract. Mr. Complett saded him, "To take if a room in Dublas, when it is a write distinct before the contract of the same to be a sufficient based on the same to be a sufficient when it in their power to go to that milli standardsor and about as he at the sources of explosion and seld with the matter." and the sawrer wese." Then, has they could not go could no

estimon that it is externelly difficult for a Valentony Simpon who is not a value furnition of promotion or bornty that Act and fore squares from the prosent that Printer Cornellin-That has not of the reason why it think that has often in our address in the contract of the contract of the contract of the extension of the contract of the contract as against regardators T-1 papears of thermap, yet, you thank to of form regardent insenti-That is no associated by the contract of the contract of the majorithesis of the contract of the contract of the majorithesis of the contract of the contract of the last contract of the contract of the contract of the majorithesis of the contract of the contract of the last contract of the contract of the contract of the last contract of the contract of the contract of the last contract of the contract of the contract of the last contract of the contract of the contract of the last contract of the contract of the contract of the last contract of the contract of the contract of the last contract of the contract of the contract of the last contract of the contract of the contract of the last contract of the contract of the contract of the last contract of the contr

438. A good dual of mulk as sent to Belfart whole, you thank in not from regotion discord—That is given to the property of the sent of

or which is a sent at?—We take samples of it, and have it enames. 6. 6166. That up for parity?—Yes. 6157. I want to know what you do in regard to the chemites of the milt, because it has been represented to the Commission that the weads in which the milt is

uns unans are not by a by monits cottombed by enemy the hopotome runder the Food and Drongs Act to give evidence on that perm. He is not on the list of convictions, because it is not on the list of convictions, because it is not on the list of convictions, because it is not on the list of convictions of the list of t

GHM. Mr. WILKOC—Love the possible prints in regal to termentate error oil say definite policy in regal to 1430. Can you coilling the policy—the netbods which they are bland for the improvement of the shipty trade? —I that there is not the objective doctor in administrate to the control of the control of the control of the very well as our city. Some Order in administrate that the control of the control of the control of which the city definition are control of the which the city definits also are write?—That as an

<sup>2</sup> which the city delities have varient finded as so, 6181, and from the dearny man's point of view, the colpetion to the present stuation contains the city in the competition which the city men have been forced into a position of competition with other man woulde who have not had to spend the seem convent of our and trouble on these premises "Think is no.

646. Have you any opinion as to whether there is a shortage of ordic in Bellata!—I have no knowledge. 6468. And consequently you don't know whether any reduction has taken place in the supply in consequence of the enforcement of the Order!—I have no knowledge. 6464. I faither I am sight in asylve that there is a systematic imagestics of the Bellist milk supply for toberels hardly.—Log, there

GMA. I think it see hight in saying this best is a systemate suspection of the Belliast milk supply for tobered bardin—Nos, there as. GMA. Cas you explain to us just what the Committee do at the present direc in cognet to their system?— Georgies of the milk are own the Producest Community, the see that the community of the co

6464. That is very unteresting universation. I gather the year devil propose to discontinue the examination of the samples Secures the results have been negative?— Not. I might say that Pertainer Symmens in presiculty a personant downer—I kept by will be a percelly a personant downer—I kept by will be a percelly a personant downer—I kept by will be a 4947. And you would be assisted if Preference Symmens went on proving negative results for a sense of years?—Cas, and I would be digitable in continuing

6446. Howe you may suggestion to offer with regard to a proposal flow Namiognifiles abouted run the dury trade—I would have no abportune to their.

6446. Would you consider that the Public Health 6440. Would you consider that the Public Health be stitled to morage the trade?—No. 6450. Why?—I don't think it is flow hother so 6450. Why?—I don't think it is flow hother was efficiently settemined at II. I think that if the tother was efficiently settemined they to stop in to look after the runk supply.

Dr. Bonnut Thomson,-13th February, 1912.

6161. When we were atting in Dublin we visited a ser interesting milk depot started by the Woman's vicy intermeting milk depot started by the Weenen's National Health Association in Stric Boad. Have you 6152. You know the idea of peaterrising homanising milk, and otherwise treating it for infants?

6168. And supplying it to the poorer classes at nominal rates, or free in some metapost?—Yes, in connected with a system of following up the infinite to their homes with tenined numer. Would it be within the province of the Public Health Committee to assast in running such a depost—I would object. I think it would be going too far. I think that is a matter for charitable and philanthropic societies, but not for assistance from patter funds. 6155. Would you leave that entirely to the charitable public?—Yes, or to the Paor Law Authorities; but I don't think the Public Health Authorities would be

postified to spending money in that way, matter either for a abaritable or philanthropic body, or 6156. You have, in pount of fact, a small Municipal Betters' Fund?—Yes; the mency is collected from various sources. There is no Corporation money going into that Fund. We have verious sources to collect in

into that Fund. We have ventous sources to consecut from a soil is administered by the famile sub-austinary officers under Dr. Baffis's supervision. The poor get no money from the Fund. They get an order, I undertain, for a sertial quantity of milk. However, Br. tand, for a section quantity of radik. However, Dr. Benthe will be able to give you information about that. It is administered under him.

6167. I think you said that there was only one Daisy Impactor in Belfast, a whole-time officer?—That is so, 6168. If I am right in my receileding, they have three in Dolbin, and they keep than at work?—Carlays.

they have more deines situated within the city then we have. 6159. How many deletes are there within the Belfast srear—Two hundred situated inside the city. 6109. In Belfast, It shet it, you would agree with a statement of the problem in this way—that the city ingely consists of emplitude of small broose, and in

each of these houses there is a femily buying only a small quantity of milk, and from the commercial point of view, it is very difficult to organise the trude upon a commercial basis?—Yes. 6161. That would represent the problem in Belliast,

would be a me too size reasy to express an opinion on that subject.

5162. Would you be in favour, when humaing milk purvature, to make it impressive that in all future prepostion between the part of the house in which will Omnibus Bill we have got sample powers to deal with

G163. Powers to provent milk being stored in a bed-room, for instance?—Yes, we have sniple power to pro-verb any connection between bedrooms and the place where the milk is stored. We have very sample powers, minds, under the new Ball which has only just possed

6164. You have not been able to do much so far to enforce it?-No; but we have ample powers to deal smorce mc—80; but we have ample powers to deal with the matter to which you refer. 6105. Lody Evenano.—Do you know that in Man-ther they have power to go outside their district and mayord the sources from which the mile as supplied to the city?—I did not know short the mile at expelled to the city?—I did not know short Manchester. 6266. They have got a private Act, and they have got outside powers of inspection?—I did not think any got outside powers of improtons?—I did not stiffle sing city but that power morph London. However, the matter rests entirely in the hands of the Lond Govern-ment Beard, who have it in their power to give us ra-the same powers. They can do it under the 19th Section of the Tuberculesia Prevenible Act; but their

Defer come into force, and its some piaces the Order

in just a dead letter.
fifer. The evidence that came before to showed that persons arading in milk to a city are liable to a persity
if they are not registered — Yes
(109, Mr. Wranox.—We had a considerable body of

very many of the cows that are insued there during the winter months are sent outside the cuty area in runner on grans. Does that custom prevail here!—You the are gent to the country derive the nervene

6169. And dering that time you have no power to follow them up?-No. EVERARD.-Are they inspected?-As a matter of fact, I believe they are impected, and our Inspectors are regarded as truspassers

6171. But they are not immeded by the Local Autim-"They are not, I believe. Our Imprecion rangest them ou the genes, but the Local Authorities, as far as I know, don't import them.

GIT: The Chansen.—Do the owners of the core reverse any question as to the jurnifiction of your effects for make an inspection outside your own differs for make an inspection outside your own dashed; as assume sows from the city, would the owner question to produce head. I serve the contract of the co

reports.
6173. Mr. O'Benru.—Talking of the power to go to an octode area, you have no power to go out and inspect, even though you have a researchie cospicion inspect, even mough you have a reasonance compount that injected milk is being sent into Bellast?—We have never if we have reason to believe that discuss has been caused by that milk supply.

6174. But only after you have got a magazente's order?—Yes. order?—Yes.

6175. Supposing that you know that a supply of milk sent into the city was contaminated, have you power to prosent on impection after you have got the magnitude's cedier?—We have no power except its eccept liken to cause the milk supply.

6176. But not be presented?—I do not believe we

Olivi. Bill less as processes.

Aux pource de prosecute.

617. Can you cell ou the Local Authorities to prescribe, because I suppose the Local Authorities have power to prescribe?—Tee, but you cannot have power to unless they see concening an infectious no consesiment of disease, because it was not known

at the disease existed.
6178, I see. In tolking of registration as against the from sing of milk vention, what advantages do you calculate would be got by Hermann over the central powers of enforcing registration?—Simply this, that if a man did not keep his premises in a good condition.

and if he was courseled a number of times adulterating his milk, I would withdraw his Bernon. 6179. Have you not the power to withdraw registra-617. Have you mee the power to willown common size. There is no power that I am aware of, except that you can prevent him scading in milk if you discover infortions discover but in any other circumstances you could not stop his milk supply. 6180. If you had the power, as a considerable number of witnesses have without apparently, of

number of withcome have wished apparently, of financing as against registration, would you be in favour of incoming all owners of milely power, or morthy nifk venders?—Simply milk venders 6181. Dan't you think that would be rather apt to

lessen the milk supply, because people would say, neither than take out a flocuse "we would give up adding milk "; whereas, if everybody had to be becaused as an owner of milds sows, there would not be the same feeling assint it? I fon b think to. 6189. Yes think that would be too cumbersome?-

6380. I think I heard you say that you had some could also should be a stage of the could be should be seen to be successful. 6184. Do you give compensation for all exists that are alaughtered as tuberculous?-No. 6185. I notice from the evidence that is to come GBS. I notice from the evidence that it is confirmed before us that feet it is externized number of existing suppliered here?—I am referring to the deaty cover that are entiring from tobercolous of the older, and I believe that it is only in a case of their description. The externized has the entire that is no experience of the older should be a suppliered by the older of the older older of the older older

permanent in a case of those some, recently the variety occupied sharpher and you pay congregatemation. (No variety so you do its look and mouth discuso. In cases where a mine has solutedly alonghized an estimal for the purpose of feed, and the tieth was found to be evidence in Deblin that the local oustom there is that

Dr. Regger Thomson,-13th February, 1913.

mechanisms and unadeable, and was combasted because it was dissued, you would not jive compression, usin, just as you would not compensate a man who compared to the cost of the cost of the cost of the compared to the cost, it says was specified to provine compression. (100, Dat, in the highland, boronic series and the provine compression. In the cost of the cost of the provine compression. In the cost of the cost of the specific series in the cost of the cost of the cost in the cost of the cost of the cost of the cost and the cost of the cost of the cost of the cost cause, floorly the might he letting flows takened head?

completion for the water of the property of per same from thereties of the water.

1877. You color her to be singulated, and when 1877. You color her to be singulated, and when 1877. You color her to be singulated, and when the second per second the second the second of the two cover that we constrained within my recelbelies, the correspondence was finded with tubervalueds abould not be relent if the silence was boulded, and about nor be relent if the silence was boulded, and it pounds are ventrainers. It am not quifee obsert on

and the subjects of the subject of t

As a metric of feet, this is what apolls our storation and makes it appear that we have more taberations animals than what we ought to have. The velorizance animals than what we ought to have. The velorizance 6.091, Now, in the extendrelizer of the milit supply at 16that for toberche levells, I gether from Mr. Wilson's quantics that you have a regular system of inspecting, at all events, cause of the milk who comes inspecting, at all events, cause of the milk who comes

at Bellinet for tolerate beculit, I gettler from Mr. Willow's quastical that you have a reguler system of inspecting, at all events, some of the multi-thiol comes multi-the-like and the state of the superior of 100, Whereb-ack the state one. 100, This is test-forme with that is impected byes, but the takes saxiples also from the Caly supply, and likey are seat to Preference Symmers for communities.

and they are sent to Frofesor Symmers for examination.

6394. When you say there is an examination for taberche bentili, is it macroscoper—No, gather-pags are used.

6392. Thus, of course, involves a considerable store:

605. Thus, of course, involves a considerable through 605. Thus, of course, involves considerable through and by the time you find our whether the milk has towered the construction of you be able to find our find the construction. You could like the where the milk come from. It would be quite easy to call that 6100 In the construction to this thing of samples?—I never head of easy, except in a couple of cause where they refered.

"MIN" Winson—I objected very stenooply says of on one constant to have a some perfect intern"—I do not than you not have been admit the internal do not than you not have been admit the owners of cores in the areas outside the rate, or in the owner of Belma city, have their cown subjected to the threshold of the contract of the contract of the contract Belma city, have their cown subjected to the threshold Belma city, have their cown subjected to the threshold Belma city, have their contract of the contract large comments in obtained that the cown are allpeted to the behaveour law that the cown are allpeted to the behaveour law in the contract of the 250° MIN. Whose "Mo.—The only can that channel 250° MIN. Whose "Mo.—The only can that channel

6390. Mr. Window — No.—The only cos that sixtund to have the tuberculin test applied is the owner of the Holywood dairs. 9300. The Chantons.—Is it a large dairy N—Xes. 9301. Mr. O'Zhrix.—Whose huntron in it to inspect

1900 And take samples?-Yes

600. Ever are they shir to take anaphe of smill as tributen-seen by a soft—I control countly say such as for the same and the statement of the smill shope, or wherever the 100. Boxes at this mill shope, or wherever the 100. Boxes at this mill shope or wherever the 100. Boxes at the smill shope of wherever the 100. Boxes at the smill shope of the 100. Boxes at the 100 shope of t

Beyinth, one to no interpretent short the cross state that share a part of the share and the share a

are bring tuberculous, been we distinct them therefore because you have get on many of the finement rules from Dulints—Their is no maintained by the finement bullents—Their is no maintained by the finement bullents—Their is no finement bullents—Their is not in more tuberculous around, and if you don't find with the captained wash—We have not such a light persontage of tuberculous sows as appears from the presentage of tuberculous sows as appears from the CHILO, the first person and you have been presented by the contract of the contract

that Dr. laterines a continuous states than the same been discovered teherocious rather than the same laterines with the counts of suprison—I was dealing with the cows that were sent of up here by real.

GELLA NOR as solich cows, but as contrary animals for most — Yeo. They are brought up here from Dublin for situation.

the dissiplice.

Mr. O'Burns—I entrol to make that dear, because it belond nather his a control/data—If you had not contained to the state of the st

The milk regist be free from twherevisual when it was the bloom, and it might be confusionated with tableshe becomes up to death concern very frequently.

6316. Mr. Whenex. You would not bloom the dainy trade for third. Not. The probability is that the source of infertion is in the house and in the people concepting it.

of measures of the control of the co

6239. Do you know if the poorer classes are using more smile for their frauties than they used to do, or in a position to say that.

6250. Have there been prescontants for justing pre-preservatives into the milk—1—we get preservatives into the milk—1—we get preserva-best in the position.

6222. Have there here many processions for the using of proservatives?—Not many, we had a few. 2 D Dr. Housey Thomson.—Little February, 1912.

9238. Do you siles a certain percentage of prescruttree?—I think the law siless a certain percentage, but I am not quite sure on the point, 6224, Miss McNenz.—Is it your Committee that in responsible for the appointment of the Dury Esspeciar?—I.e.

—Yes.
6025. Are there any definite qualifications which
your Committee expects to find in a Dany Inspector?—
The Dairy Laupestor as a man who is supposed to have
experience in the future trade—a man who has had

precised experience in the duty bosness.

1026. Do you mean that he has been already engaged in the dairy brake?—Yes.

1027. And is no longer engaged in the business?—Yes, of ourse.

6227. And is no longer engaged in the business?— Yes, of course. 6228. Supposing your Committee were making a new appendment of a dairy improtor, what qualifies

naw appenisment of a dairy independer, what qualifies tican would they expect in the applement—I highly a would be shouldedly essential in the qualifications of a man as a delay inspect that he should have proteined experience in duty work.

6229. The Committee would expect that he would produce score evidence of having been copping in a dury that some will worked.—That would be impor-

in 1839. Do you know what is required absolutely half less that cur dark inspector was for many years carried as discy work for human!. On the carried as 2539. What I want to knaw is, would that be made a requirement, or was the fast that he had a knowledge of the darky business merch worlderich!?—He was

of the dairy business meetly accidentally—He was appointed before my time. I can a momber of the Flobia Health Occasities only you years.

3333. Mr. O'BREEK—MOD have only one dairy magnetor?—Tes, and a velorizarizio.

magnetor?—Tes, inche a velorizarizio.

He inspects both the certain of the court is and the normalizari.

6244. The Charmacy.—He he a whole-time officer?—Both are whole-time officer?—Both are whole-time officer.

Galle. Mr. O'Benns.—And you think that one inspected is unificant to impose the two bundeed durins in the city, real I do not know how many shock sheer are—We have an inspected of multi-shops besides. He as a whole-time effoor. I did not include him. I should have forbload kine, as a reatter of heat, in the officers, but I was not thinking of autitshops at the time. We have two imposions, header

stops of the time. We have two improves, besides the votermousan.

6209. And then this third mea whose business it is to impact rails coming in by terio?—There are two men engaged in that. They are the Laspector under the Food and Drugs Act. They have power to takesamples. They aspect the food and drop all over the

the Food and Drugs Act. They have power to take samples. They inspect the food and drugs all over the city.

6237. Do you consider that one dairy impactor is quite smilletent to examine all the correlated inside the city?—You. I believe that the Order is very elimently schemistered in Bellian. I have every reason to

satisfication in Bession. I save very reason to believe Warsh dees he in draring the summer meables when the sattle are not on grass—see there many cover kept in the city doing the summer meable—I do not think there are predecily any. I think a good deal of this time as speak going round the cowhelds pointing out the necessary repairs. However, he will be consisted Moment Deform you and give you revience

be consided someth colory you and gree you extended to the consideration of the color of the col

in this work?—No. He is engaged entirely in the interaction of michishers. He was appended to see interaction of michishers. He was appended to see the second of the seco

was discovered as coder that a procession should not be them. The option of presconding new codes not as the code of the code

6363. And I presume if their caresses are found to be infected with tuberculous to a very large extent they are confermed, and not used as human food?— That is see.

6044. And the owners of these animals softer a beon account of the derivative of the encreasers to be.
6045. Hose that been going on for a long time-I recent the treds in samules of their chem?—I cannot be lower to be the samules of their chem?—I cannot be lower to be the samules of their chem?—I cannot be lower to be the samules of the chem?—I cannot be lower to be the samules of the chem?—I cannot be lower to be the samules of the samules of the samules of the lower to be the samules of the samules of the samules of the lower to be the samules of the samules of the samules of the lower to be samules of the samules of the samules of the samules of the lower to be samules of the samule

must necessarily be very preceives, if not a long basis, is considered by certain desirce who heme cattle form the Dublin market here?—It seems to me as about business bringing them down here. The only thing is that they got these cows for a traffe. If they get can of them passed probably they could affect to less another.

GRAT. Mr. O'BRIES.—It is a gamble?—Yes, it is a gamble.

2448. The Chairman.—It seems a very presurrors trade to perdist in?—As a matter of fact one sainted was in such a bed condition in a saide sale year when the could are said that the Public Health Committee

mainted segond for sale. It was do in equil obviously in a very discord condition.

2404. And these nameds are bought by dealer in the Dublia merick, and unknopping elected for sales in the Dublia merick, and unknopping elected for sales in a spoble merick in Belleste'—I connot exactly say. The vertermizers indeed a given problem on this paint very fairy. I cannot say wholese they are especial for very fairy. I cannot say wholese they are especial for very fairy. I cannot say wholese they are especial very fairy. I cannot say wholese they are especial very fairy. I cannot say wholese they are not to the very fairy. I cannot say wholese on the sales who we will be the sales of the sales of the sales of the sales.

6200. Mr. O Branx.—I think some member of the Commission saids you whether you would be in freeze of any next of municipal supply. By you think in pages supply of the commission of the comm

question. You understand when I means 3-4 dec. 465. In by subthe that it the milk were ill well with the subthe state of the milk were ill substantially one owned by the milk substantial that would prought sufficient the principality, that that would prought sufficient the principality of the substantial that would require very nature consideration. And I am not be the bable of making up my most as a heavy. I am not quadride the empress an syminor of a heavy is a require very surface consideration. In it is a very bat propriet very surface consideration. It is a very bat the propriet very surface consideration. It is a very bat the propriet very surface consideration.

### Dr. Asuncw Terrence, D.P.H., J.P., examined.

6153. The Charman,-You are a medical practitioner in the city of Belfast?-Yea, 6254. Do you hold any public appointment?-No, 6225. Are you a maraber of the Belfast Public

6050. Are you at all familiar with the quantity of milk consumed by the working classes in their homes-do you know whether or not the children of the working closes are getting a resembly singuite supply of mile for their development?—I believe, from my experience as medical practitioner that they are not quate supply of any sort of milk. 6507. To what causes do you attribute that—is it

consequent on the difficulty of promiting it, or the manufacty conditions of the working obsessed—I believe. first of sill, that it is due to the commercial possible in buying so much as they require, and with regard to the restore of the supply, there is a great find of con-densed malk drunk by the children because it is

6255. You do not subscribe to that theory?-No 6239. And do you recommend condensed milk if ordinary fresh milk to proverable?—It is normous to 9900. And if exposed to disease its power rititianse would be greatly distribled?—Tes. relitizator would be grattly distributed 5—Ers. 6961. And it would more resulty measure to distribute 5—Fra; buildes the observed of last from con-densed milk leaves it less mutritious as a food for

city care excremed to our that more than the proper properties to see and not more than the proper properties of water is added to exceedened milk-I do not think that the content into organised filter—a no not some that these cancers man the head of the mother when she is preparing the milk. She delet at out by rule of threads—and, except to fire as our lady winters mornists a little idea of

condensed milk 6004. Is dried milk used as a substitute for whole milk?—To some extent, but amongst the better cleases. It is dearer than pure milk

6285. Is there a considerable trade done in that milk in Bellint?—It is more enough the medical even, who find a difficulty on the part of the children to digent the ordinary cow's milk

6366. Would the milk then be administered under the direction of the modulal officer?—Yea. 0087. People do not, of their own volution, elect to milt unless advised by the medical attendent

easts. With regard to the milk supply of the poor, in it of a poor quality, and not supplied under the book hyperoco conditions?—Yes.

6260. So that they suffer from dustration in supply sol in quality?-Yes. 6070. And naturally this would conduce to a less visile and less school rising generation?—Yes. 6671. How far does the question of meany come into the purchase of milk, do you think-does the ordinary

cach a town as Belfast than are inscaleded with the friends at the country on a very indiscriminate hind of diet, it is quite perminable to do the same with a town obihl.

6273. And the result is that you have to many decrept and anseems operimens of the human race?-

6273. And the poor quality of the malk conduces to certain diseases?—Yes, runk as courry, mokets and

6274. Are the core railied only for one calving in Bellast end then feitened or sold?—They might be used for more than one sussen. They might be used toife cown entil their milking capacities are eshwasted, and then killed, 6275. Is it oustomery to put them in call again?

I think so, but I connot speak from personal know-6276. You direct effection to the fact that a number

6277. Why do you have these saimals shughtened in this way—do the owners think it is not profitable to your them on milk food?—You, the milk required would not pay a farmer to roar the colves, so he them off, my, within the first week to save the neils.

till'd. Do they get anything for them?—They get waying prices in the winter sensor. The price rans from ide to di; in the summer the price is higher breause the milk is chesper. 6279. And the number is comparatively less?--Yes.

6350. That, of ourse, leads to an encentee depre-ciation in the quantity of stock raised in the country? —Teo. I have some statistics with regard to the number of stink culves shappinged in the public "The control of the c milkers; and I have led some difficulty in estimative the number of better calves claushtered, and after told me that two-fifths of the whole number of onlyes shughtered would be a fair average for the heafers. That would give 794 helfers shughtered for the year

0381. Unfortunately, I believe that the custom provide in England as well?—I darrany there are two causes for 85—not only that the milk is dear, and becomes for he-now only that the miss is dear, and becomes descer, and therefore it does not pay the furner to rear his calf, but because also the firsh is shown. It is shout half the price of primary beef. costs. That is the first of the immature raif?-Yea:

would like also to say that it is a fallactous idea 6288. As a first food it is very taferior?... Yes. is remindred of the physiological experiment of feeding a day on gristico—of day in about a forteight, and the feed of shink onlyes is practically gristing.

6384. It is exclusively used by the power classes?— Yes; no first-class betcher would deal in it, but there are butchers who tende in no other form of ment. 6885. As a medical mean, you are impressed with the absolute macrasity, from the public beside point of view, of hering the milk produced end handled in the cleanest possible way?—Yes; perhaps I should draw your attention to the other charts, showner the number

your attribute so one waser corres, sorving on annual of springers and much cows experted from the port of Belfast,

0380-7. Think you. You have gone to a great deal of trouble to put your views very stearly before the Com-mission?—This is a national question, and I can very resisted to help you. I want to draw your attention to the first chart—the one abovelog the average number of the first reservoire exported from Belfast for five years from 1902 to 1903. The number exported during that

period was 1874,983.

e8288. Mr. Winnexe—Do those figures refer to Belfeet5—Tee, to Belfest. And the number of estime copied for the five year from 1907 to 1911 at 154,565. I want to contrast that with the cupped of surregs period per least. The surregs period period of all the chemic expected frees Belfest in this first of all the chemic expected frees Belfest in the first

Dr. ANDREW TRAMPICE.-13th February, 1912.

pecad of the years was £55 kie, age boal, and in the second period as £50 kie, 60, which above that the second period as £50 kie, 60, which above that the accordance of the second second second second to the second second second second second figures to compare with the second. I have only of the figures for 100 kin 11, 11 kin the self quiences and figures to compare with the second. I have only of the figures for 100 kin 11, 11 kin the self quiences and the second second second second second second of the sevenge of periodes and middlates respected \$4,415. Now, out, 1, just with that the figure of the order to get at this total number of middletes or postteal millions that see both through quotier of postteal millions that see both through quotier of pecifical

before a three mediational in a best term to designation of the absolute at that of the three of the control of

spin of a phenomenal year (1911), when all other exports (fifth that although the naverage prince of cellatic remains the name for this whole the years—1900 is 1911—11 years of an own that negard to subhe the naverage of the name of the political contents. In this is must be obvious that multi risid must be treated parties of a political content, I which it must be obvious that multi risid must be treated parties, and if it has not been proposed. I will have these shirts with your than the prince of the proposed of the p

to as faired on Enterth One, have left Bellius expected from Enterth who was been been as time to receive in mind that the same time to receive in mind that there are a number of other parts from which there are can number of other parts from which there are can number of other parts. Bullets do not represent the area of supply so much as it represents the parts of algorithm, because mainly these cettle po to Sectional.

2200. Where area your figures from 1—I got sense of

6290. Where are your figures from h-I get some of them from the Portal Impector and some from the Superintendent of Markets. They are official figures, 6201. Are there may of them from the Department

6697. The GRAMMAN—I am sory Mr. Compiled is not here, because this evidence of Dector Tenine bears on the wards of his Department. Wirranss.—I wanted (If a might be n ascount and wards of the control of the control of the transport of the control of the control of the wards of the control of the second of the department of the control of the wards of the Mandellius know-choicing the forms will know a good unfoler, but be will fail or it would be now thin out the supposed of him to know if he has

office and the control of the desired as a second process of the control of the c

any advantage be procured as too behavia and urpomate, and serves binned only) while he has the working industruction to var indicators.

650. Mr. O'Binne.—The Department of Agreedture are delay sensiting already on the lines yes indicate with regard to hulls?—That is very astuday.

They have a number of hulls from regulatered officing risums where milk records have been loost, I think the bulls now available for distribution are of the their seconds.

The CRAMMER.—About that.

Mr. O'BRES.—The Department is actually weeking a those lines at present I am glad to say, Dr.

Trimble. 4885. The Chairman,—They are also seeking is develop it in Bith freiber by salong the owners of develop it in Bith freiber by salong the owners of of the mild's deficield in twices motible, and if this reaches a certain stooked with respect to quantity and quality bases easy will be regarded and here reaches even will be required and here reaches and quality bases easy will be found that I am did to be salor to saver you that of all reveals exceedings in long dozen the direction to when you have wisely which the offention of the Communication of the communicati

eight. Do you think that the orders at present in collection are not based on what one might describe as modern legelstaton?—I do. They are satiquated, combesses and modequate. A great many of the Public Health Acts on which we go were made without a knowledge of the besteridegied of waters of satisfary sections.

aggregate the season of sortically up to data. The many point, and any point of the point of the

"Section 28.—(1). If the meined officer certifies to the level without persons in the district in a spiritup from nejections disease selection in the street of the section of the section of the section of regime within the district, the level of the section of regime the districts copylying the units to make a proper the districts of the units of the section of the spinor from which his negly of units is derived drong about from which his negly of units is derived drong the section of the section of the section of the section makes a sumble required to spoke the distription, and makes a sumble required to spoke the distription, and

seems absently the top a contract price management where the proper that fitting of desired the seems of the

Dr. ANDERS TRUSPER, -- 18th February, 1918.

1800. With appel to the previous of pera territor. It like it you for soft that it would be not monomer to be a peraper to be the peraper to be with the peraper to be will be a peraper to be

the contract.

2009. It would be possible for the Public Health
Authorities, if suspection were around to know whether
a pomon engagined in the trade had been sufficing from
typhed dower, and might not possibly be a gent
current—Tues, if a case of indections also me break
out in a duryman's facetly he sends the case to a
homestal.

600, Mr. Wasses.—Apprenticably, how many people are engaged in the darge trade in the dilty-fit and lateral for any factor of the control of a collection of the Widel COU. The Controls.—The applicable to work to collect of the Widel COU. The Controls.—The applicable of the Widel COU. The Control of the Widel COU.

one organization to construct ourselves of the control of the cont

corood, they know this the loost reflection on the character of their track that is published in more lable to square them then saything else 4506. Do you thank that the Darry and Cow Shele Creder should be universally administered throughout the entire country?—Yes. (500). The Wald text is for typical?—Yes. (607). Is there my analogous text for diphilaries?—

6807. Is there any analogous test for dipriterist?— No. 6808. How could you tell in such a rank—You would take a seeb from the thoust of the unspected person, and in twenty-four hours you sould tell, and came times immediately. It is mostly displey than the

While the even.—Been would you deal with a great, Mr. O'Bellow-row feasible has on her-Maley and the statement of the stat

cann where typical carriers retrom typical switcher (III). You have bad from hims to lime within recent years very secons ordinated of ophasis—I do not say a in Britain stude—which were draining beautist to a in Britain stude—which were draining beautist to a coupleyed, or an oter holy in the brase was a corrier and affected retrom people, and arrogat others force worker typical contex. The original typical speeder worker typical contex. The original typical speeder was a typical contex. The gript who was native to typical contract in time. The gript who was native to typical contract in time. The gript who was natived typical contract in time.

deal with three people.—They must be identified precised from handling mile or any other writed of lood for human. We. Similar with the property of the series of the people who are appearedly highed comme for fift, and how would are you had been sent by the better and put on to Trey with the series of the put of the property of the ordinary robb and the put on the property of the ordinary robb and the put of the property of

say Fusion Heisels Authority does with three—see the te be taken and you do to Tory litted and left three— —Those awa, I take it, part of the originary noise life that we may have not not surveit them to infeators foot. The long-time has already recognized in granulating on the meaning mant of mellion or my state production foot, not the even thing should be dewithin agrid to hyphodo carriers, and I hald that he would be no hardely in fact, I would go furth out any doctor be precess doubt on the already ex-

to cook foods.

6333. The Channaray.—So for as mills is concerned,
you are quote ober that they should be shouldedly
pro are quote ober that they should be shouldedly
particular from tooking (12—75 a., and I may say bore,
although it does not come within your purview, should
be the should also receive the same attention on mills.
I have pursued some experiments to use if you can
get all the baselers found in malk in butter.

6314. Mr. O'Brase, In not that butter which has come of contact with the germs as manufacture?—No.

6615. I thought the manufacture desiroyed a great many of the germs—Bait, at all events, the typheid germs had not survive the treatment?—It is a small permanent. and is not completely but I was going to

perms der not service des Gestlendts—it is a service of the control of the contro

No. You would only bring if up to 60 daysoo. 6817. Mr. O'Burne.—That is where you show whale milk, but in chursing oream you are reducing the nek?—That is eo. 6418. Three gallons of milk, my, goes to make a

de (dill. Three galless of milk, my, gent to make a pound of briter, and you endout the rise proprietices silver, and you endout the rise proprietic silver, and you endout the rise proprietic silver in the case of butter)—Yes. The possibility is that the garms in the milk will convey themselves to the butter in the convey the convey to the convey the

Section of the first way to be a second of the contract was a first of the contract with the contract with the contract way to be a second of the contract with the contract way to be a second of the contract with the contract way to be a second of the contract way the contract way to be a second of the contract way the contract w

I do not say that the owner of the subtrook of typhoid was seeminfully growed. It is only what one rounds call applicationized relations that the butter conveyed by any property of the contract of the contr

mm brainteition their curses the discess?—It was not been assemblished proved, but there is this storage prola samplers condense. I think decidedly butter may a courty discess.

1 think decidedly butter may be did further worker or the possure man possible the butter the magter of possibly be a typical courter?—No, in. Tool to magter of possibly be a typical courter?—No, in. Tool to the terms of the possible of the property of the proDr. ANDREW TERMINE-EMA February, 1912. is just one of the difficulties that arise in what cor

aughe cell the consumers' area and the suppliere' area; that we as a consumers' area have no rath to so into the other area and pureoe our investigations as we would have done if an outbreak occurred in our own. 6053. The CRAHMAN.—Bo you believe it desirable that that power should be sequired?-Yes, but I would ties that power ancess or sequent?—Yes, but a wound not say that the consumer authority should have the responsibility thrown on them of inspecting the suppliers' source. 6023. I only support that the power should be per-

numers ?—I quite agree that it would facilitate matters very much. I think it would be of enermous impo-

\$504. Mr. O'Brans.—In the case that you epoke of shout the creamery supplying butter to tits rayhum, do you not think that it the creamitry proper a manager had been approached he would give all facilities to find out whether any worknes who had peaked the butter after at had been made were not free from typhood germs?—As a malter of fact, we cent our imspector up. We got samples and we did offer things; but there is always that amount of what one would call passive restriction. One does not went to find out the worst. There is generally passive resistance against any investigation.
6526. The Charman,—There is a certain amount of

6026. Do you think that the peners conferred on the medical officers of health with regard to infactions discusses for numbership—I do, most distinctly. I would draw your effection to the following clause in the Infectious Diseases Prevention Act of 1803, part 2 tre Innertons Immance Prevention Act of 1990, part 2, section 4, which reads :—" In case the medical officer section 4, where rooms —— In case the mouras omage of health is in possession of evidence that may person in the district is suffering from infectious disease, attendicable to milk supplied within the district on any duny situate within or without the district, or any duny situate within or without the district, or that the consecuption of milk from rank duly is bliefy that the consecuption of milk from rank duly is bliefy to cause infections discuss to any person residing in the district, such medical officer shell, if authorised in that behalf by an order of a justice having jurisin that behalf by an order of a justice having jurns-diction in the piace, where such dairy is situate, have power to impost such dairy, and if accompanied by a veterinary impostor, or (a) some other properly qualified velocitary surgeon (b) to inspect the azimula is caused from consumption of the mife supplied therefrom, he shall report thereon to the local authority, and his report shall be accompanied by any report fornished to him by the said votenners inspector or wtermary surgeon, and the local authority may therenotice to the darryman to appear before upon give nonce to me corryman to appear reaces them within such time, not has then twenty-doze hours, as may be specified in the notice, to show cause why an order should not be made requiring him not to supply any malk therefore within the district until order has been withdrawn by the local arthority. and it in the opinion of the local authority he fails to show such cause, then the local authority may make such order as algressid, and the local authority shall forthwith give notice of the facts to the sanitary sutherity and County Council (if any) of the district possible that the medical officer might find everything scrupulously clean, and sail the milk be a source of infections discuse, and that did occur in the case of the dightheris outbreak. The medical officer made an importion of the dairy and found it serupatonsly claim had use had reason to believe that the rulk was quasing drahflerrs, so that I buttle the powers are not sufficient. 6327. Do you not think that in a case of that kind Yes, the epidemiological evidence may be perfectly strong, but the physical evidence may be weak.

5328. Mr. O'Barrer,-- Do you know of such cases as has apparently been sent out from a bosnital as second of dipathering-Yes, they do coour. 6539. And you may get comeone working in a dairy

6000. That there are certain cause where a propoassemed to become a permanent camer of diphtheeast.
Yes, that has seturify occurred. There was a rase of a child who was not, so far as we knew, capaged m handling the milk, who infected the milk through the mother, who was capaged in handling it; and we had other cases in Belfast where diphthera occurred occurse the attendent carrying the milk had setrolly had diphtheria.

6081. I know of such a case in Belfest where a child was treshed for months in a hospital, and was sent out apparently free from diphtheria. After being out it was found, on a sweb herny taken the threat, that there were perma; and thus child has been now for a year living in isolation, and one does not see when that child is going to get rid of st? Such a child should not come in contact directly or indirectly

with the milk supply.
6832. The difficulty is to find out whether there are like that who have apparently had a very steck. They are sent out as cared, and they All may be dipomeras oursers?—You. 6553. Of course, in the case of persons who typhold, one has got to reason to persons wan tand typhold, one has got to reasonine now that they may corry it for years, and a person may become a per manent typhoid carrier; but heretolors it has no been thought so of dightheria, but now there is no doubt that a person may become a dightheria carrier for a year after the disease was supposed to have here

cured — res. 6334. The Cramman.—Are you in favour of homens dairy-kropers — Yes. I think in the present circum-stances, and from what they have been able to do in New York in that way, licenses would be extremely valuable. In New York they are able to obtain control of the supplies in the outside areas. One of the con of the supplies in the cottants areas. One or me one dittions on which the literates is granted is that the dalayman within the area of New York shall give a but of the securest of the supply of his milk. At antervals an improster from the city is such to check that. If the now-keeper refuses admission to his premises the inspector reports to the New York delryman..." Your liserous has been granted on the combinen that we will be allowed at all times access to your sources of supply. and in one case we have been refused, and we will bave to withdraw your looms? " No livence has ever have to withstraw your issuese." No libernoe has ever to be weighterwe, because the distrymen immediately have the restriction withdrawn, and invites the inspector to go and inspect the precroses. To this extent licensing would be useful, but I do not think it colve the whole difficulty. 6835. Do you think that it would be helpful as the

solution of some of the deffection that arise? It 6886. You would, in the first instence, impose on ditions as to the character of the person realing the application for a biconne-you would not less the indistriminately to everyone that applied 1. No. Tool in the visious principle in registration, that one

that he was a typical carrier.

6337. I take it that you would be in favour of refusing a licence to a person who was guilty of breaches of the Art or the abelievings of mili?—You, as in the case of the criticary publishesse beence.
6008. You would see that there were proper con-638. You would see that there were proper our divisions for the keeping of the cown before you granted the Secure?—Ten. There are two methods by which we would be able to get clean milk. First, there is the power of the consumer area to inspect the supplying areas, and recoulty, compository storthantion of before final distribution. 56399. For would be in favour of that?—I think that that would be desirable. I don't know that it would be practical, but it would be very describle; but I think

be provided, but it would be very desirable; are a mine this we may trush to the growing demand of the public for steriffied milk, and that domand will compel the dokryman to steriffie their milk. 1690, De you think that the food properties of the milk are in any digree impaired by sterifestion?—Not

if the temperature is not raised above a cortain point. 6541. What temperature would you suggest?--158 to 175 degrees would be sufficient.

6849. Mrss McNette.—Continued for how long?—For 15 to 30 minutes. If it is related above that tempera-ture, as in belling, then I think it deteriorates the nourisdays craftless of the milk, and there is sense. evidence that this class of milk but produced rickets.

or creamery who has never to his or her knowledge had dightherist—Yes. Printed image digitised by the University of Southampton Library Digitisation Unit

Dr. ANDREW TREASUR.-178A Privatory, 1922.

(4)4). The Cramson—We have had evidence or that subject before, and that in the reason. I put the question to yet, as to whether you believe the fixed proportion of the smills on opposite by architecture of carried to a templesture of 300 degrees?—If short it would fit carried by 300 degrees. I think past-optication does not discussin the food proposities of the milk, but steellessting, which subsides boiling, would.

6364. Does post-quiestion course pure rulk?—The effect-bredding may contaminate the milk. mast. Would sterribed milk also be subject to the same dauger?—Tes, it could receive its quote of diposted germs just the same.

5346. Lody Evenano—Ia it not a fact that milk sterified or pasteorised is more liable to infection than streamed milk?—In so far as you have destroyed all the other unfriendly bettli in the unit, you have a

user Mr. Winous.—Do not the lactic send bacteria grather the suffic from particulation?—To begin with, you have a certain retained of bacteria in the milksities a little time there are fewer, but after another seven there is no marrian enum, showing that in milkners there is no marrian enum, showing that in milk-

6506. That view has been represented to the Communico by other witcomes at well as prometly, and its recent to be the generally received opinion that it is understated to expect a prefessional man, Princip to the dataset and depending on been patternage and support, to help up people under whom he cause his livedhood before the might select—I quite agent. 6500. And for this reason you then there should

be some supervising notical authority who should over look the administration of the officials appointed by the local authority?—You. I think that is absolutely necessary. I may refer before I fittish to the quantics of shirty wills.

6351. We would like to have your views?—Now I want to may a word or two with regard to drivey milk, and to make this point, that it is not early objectionable from a somitimental point of view, but from the hyperon point of view. It suppose your attention has already been down to a riport of the London County Council of non-tubercolor mortality amongs givings.

pege. The quarties cover thereigh the headmodeprise intuiting in the colorour of schief betterming with a monitories of the colorour of schief betterming with a pege the colorour of the colorour of the grates argue, that a present most groups age distolatorie results, eight days, and the inside this quantum to to what was the course of the non-altered mentality among the period of the colorour of the colorour of the period of the colorour of the colorour of the period of the colorour of the colorour of the general page 3 phys. or recently consiste, and these tearthy-right days of nonze non-abstraction disease. The case of other was found to be the fill, which color-

structured with the soils sediment laber the glutine group, and the interest, in the officiary flowing factors have been been glutine and the sediment of the

milk to invoke not uccurrence system, so to color a very worm plos against dirty milk, and to my that it is not to be reasoled from the point of

Office, As a series of degree 7-10, a count of early to great processing of the proc

to. The post of all his colline handly fore inferred by moscoper countraints, asking were subscribed built on established by (1) producing finish being an established by (1) producing finish the second of the sense; (2) counting falling postelled therement, in loop by feeding them on the facet, and (4) country in the second of the sense; (2) country fall generalist theoreties in loop and games part of the sense; (2) country fall generalists of such freely, and with heater mode from any country of the sense; (2) country fall generalists of such freely, and with heater mode from any country of the sense of the

Dr. Astorw Torona—18th Friendry, 1912.

that considering the wide prevalence of tobecomissions, assumpts of this, the presence of feared materials in milk was frequently associated with the presence of the wardent behaved handle. Cenar and follow week the warden behaved handle. Cenar and follow week consists also peak to the control of the do per cent. of eatits also peak to teleprice better the wider?—We, not necessarily.—Ye or do not support that a per cent. of reading control accorded below the per cent. of reading control accorded below.

SSA, Mr. Wilshow—You do not support this 40 per cent. of re-acting activasts except has all per cent. of re-acting activasts except haddlin-off, on all an quale convenced of this, that there are tubecoulous animals that don't convey haddlin-off harm milk.

OCC. The College —Bot in that case they may be college if through the incost—Yes, that in the college if through the incost—Yes, that in the

603. No. O'BREEN-DIM in that case they may be constitue; if through the freesty-Tex, that in the freedy that the first through the freesty-Tex, that in the first through the freesty-Tex, the first through through the first through through the first through the first through the first through through the first through the first through the first through through through the first through through the first through the firs

would supervise the local Vectorinary Suppression Co. (1997). The control of the local vectorinary in the latter to have the Vectorinary integence appendix to the local vectorinary integence appendix of the local vectorinary integence in the latter would be below. I wave amount process for the lot would be present a Vectorinary Superior for final the world append a Vectorinary Superior for final the control of the local vectorinary integers to the local vectorinary in the definition of the process of the local vectorinary in the definition of the process of the local vectorinary in the definition of the local vectorinary in the definition of the local vectorinary in the definition of the local vectoring which we have a state of th

time servent\*—Zee, Date would be very general, because the Comunit could combus together to appoint one offices. Supplied by the Central Archaford. He could be supplied by the Central Archaford and the Company of the Company better. No, not the Courty Commit, but the Local Convernment Based or the Department of Agriculture, whishever would be the Central Authority—Would bere has no confirs between the Local Authority who

Would you coggest that they should pay part of his solver? The should pay part of his 6004. You —I think that would be most advisable, 6005. Dol you know that the milk in New York as randandends—Yor. 6006. Would you recommend that?—I think it would be absorbant too complicated, and not worth

1887. Certified milk is allewed to certain algorithment per continuation of the bettern per continuation of the continuation o

colods.

6070. You say that is Belfinst dried milk is more expensive these whole milk\*—Yes. Condensed milk is chapter.

changer.

6371. What is the precase of dried milit mesh-ion at the "Hatroskere" process?—I am not nequestated with the Hatroskere "process?—I am not nequestated with the Hatroskere "process."

6372. He is also made in Cork\*—I was not aware of that.

6373. Mr. Wilcox.—Do you give with not that the most disapprots defamile in the whole dairy trade to most disapprots defamile in the whole dairy trade

6674. And the next most diagrees liem is the dimensity and obviously theree-side the set for the exceeding hardfill—Loss. 6676. That there are the two most singapous chamzels in the whole tender—Los. of the control of the control of the concet these commands we shall be reducing the return the control of the con-

GTT. The orthorne we have got before us has good to support this the number of anth salmoin is made, in Iranda then in Buginsil —That is as regards association in Iranda of them in Buginsil —That is as regards association observated whereast, but if you take into accord the attraction that are not deviacely discount of 40 cmt has attracted that are not deviacely discount of 40 cmt have are less exposed to find danger in Iranda that, in England.

In England.

In England.

box seems the Channel, and the Debte relationships the property of the Channel and the Channel

be desirable. GRRL We cannot say that at the present time?—I do not think so, a little further than the light Order so far at the tuberculous odder is encourable to done to eliminate the tuberculous under it is table the tuberculous under it is table that the tuberculous under it is table that the curvet owner should come under the

Order so far as the tuberculous often as execution. It could to deliminate the tuberculous while it is again that the previous owner should come under it is again that the previous orders should come under it to the province or discontinuous about the number of tuberculous ordices that have been actually discovered in the Bollett seem—Mr. Joefen, the Verleinse Linguistic seem—Mr. Joefen, the Verleinse Linguistic seems—Mr. Joefen, and province and the province of the provinc

the dary resists as a whole sheer in a tendence of the color of the color of the color of the color of the state of the color of the the color of the color of the state of the color of the color of the color of the 600. It has been send that in England pranticular of the color of the color of the color of the to be contention to the color of the color of the to be contention to discuss the color of the contention, the product the color of the

open, the larger the azimut is reared in the bound to more likely is it to be takeredicas.

(889) With regard to the standard of bacterin as to the maximum limit, the practical danger that 30 would want to get out in the facul contermination?— Yes.

me summers sout, the principal danger that you would want to get out in the faceal constraintalization. Yes.

6397. You do not object to the ordinary lesion and basells?—Metholisof has advased us to use there even if we had pure milk.

even if we had pure milk.

1008. Would it in not be a more feasible sizudiod,
and one which would reach the desired object most
promptly, to take the germs of pathwheelism milk
account—The Contamination? Thus would be
very good thing. I put it that the number of the

bacters should be the standard of cleanliness?--I guite agree that the nature of the bacteria should also be seen into account.

6900. Would it he possible in this country if we also had a temperature standard in the milk "—Yes, because that informes the number of bestern.

6301. The two go tagether?—Yes, and also the time of taking your sarrojo is irroportunt.

6006, Mr. O'Banin.—Con you tell roe the pains of
grille in Bellant?—I understand the stratined mile
varion in the sormers and wroter, and that it is no
hold as 61, a gorn. I know that of proceed there
is other mile being sold in 60, a gornt in Bellant.

Partarment mile is downer on occusit of the greeter

(IRG. What is the price of apparated milk—to it brought into Belfast at all?—Yes, it could be bought from certain occurrence, and it is also canned. I think it is about a peony a pint.

6694. The arrayated refit in my own county (Lime

rick) is charged at one printy a gallon?—Thrown 4095. It is valued at that for farm reproperocstrifugal force?-- I was speaking of skimmed null

6906. There is a good deal of fat left in the skimmed mulk?—Yes, but it is not very high.

6897. And in the separated milk all the fat is removed-in the creamers separated milk?-I do not 6808. You do not know that it is sold?-I am not awan.
6899. Is the condensed milk sold timed whole
mik?—No, but there is a "Calf" brand mild to be
condensed whole milk. 6600. Most of the tens of condensed miffs that w

separates make or an constrained malk?—I do not know that they see. They are called constrained milk, 6402, What posts in paid for it?—I am not quite sure of what the poles would be. I think Mr. Eng-lish will be able to tall you about that. lish will be note to say you assest mat.

6002. Do they use reach outcomed persongs have?—I find that in proportion as the inhabitarias become accuratemed to town living they do not use it. 6000. It is used in the country N-Yes, very largely, and also in the town. You must have a porridge atomach in order to tells porridge. What I mean by that is that when obligion are reased from early infancy on concentrated food, such as most, their statements to so to large as in the case of presence whom

stomache have been makaged by the use of pointoon 6014. The Chumusz,—It is a question of space? 6005, Mr. O'Buney,-You believe in the value of

command portragge as a feed?—Yes, next to milk.

6606. And for grown up children—I are not speaking of infeath-and for poor people portragge, with some of the sheaper faums of milk, such as akin milk or expansed milk. It would be a bendiky and obserp form of feed?—Yes. If the infeath used milk up to same months old, and after that arms form of staroby food 0000100 000, sinn seer same some some of searchy con-6007. De you find that the use of seatcad porridge is ags to be dying out5—En the towns at in-6008. You were telling about the dist in milk. Have you rouse distribute in Bellout in the summer 5—Wo

awe freezerdous opinions to it.

6400, And do you put that down mainly to dirty
milk 8—Yes, and to near milk tos.

6430. That also has the effect of giving them
distributa?—Yes.

6411. We had evidence given by a hely doctor in Dublia, who works in a very poor distinct, and who stated that the infamille distribut, in her opinion, was

Dr. R. W. Barnes exymmed The CRAMMAN, -You are Medical Supercepton

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5416. The CRABBLES,—You are Medical Superinten-dent of Health in Belfast?—I am. 5424. Do you held any public position other than that?—No. 6425. Are you copaged as private practice?—No. sis. 6436. Your time is evaluately devated to public health in Bellint?—Los.

due, not so much to the dirty milk, as to the dirt that was picked up by the infants playing about the skeet in the summer, and same dust getting into the wound to an identity but one has to consider that in the case of infants under a year old they do not pick up dirt in the steeck. They are led practically on milk. One has also to consider the way in which the poorer people knows their milk. In some cases the poorer peoper house their milk. In some cases the window of the scuttery, where the nulk is kept, over-loses an salget, from which contamination would arise. 6412. In my own perturalse district down in Limetick, the houses put up under the Lubeurers Act

and I suppose it must be slright. Have you benefit onything of Mr. Falls, who is experimenting with regard to the process of dealing with milk in coder think, or practically the same, as that used to the Vacco milk. In Mr. Falls' process I sucker that the max mass again and who as Dr Juc, any Just any after spening a bettle the milk was good?—I do not know anything of that precess.

6403. You would recognise the value of being able to keep the milk Bi for use for a larg trme as being one of its advantages for poor people?—Exc.

one on no martitulizati for poor prople?—Zea.

6415. If you got a milk that would keep for two or
three days it would very much affect the greation of
the supply of milk for poor people—if you could keep
it in bettlev?—Yea. 6416. A great deal of the present danger from milk in the very post distincts is that the people get their supply, perhaps, in the messing—a halfpennyweeth to colour the ten in the evening. It is kept in a room

of the mile supply could be brought rate the people's named in such a way as to induce them to work against the contamination of the mile supply. onything chart-Yes.

6417. If you got people to recognize that dirty milk

to below, and that must is a very variance most, and things of that ages, which are cather redimentary, you would have eliminated a lost of the trouble?—You. dits, that does it mainly consist of S-Ol hardly of written kinds-of particles of moreover and bets of hay 6419 In your spanion should the milk be stemmed before it is sold to the purchesers—Yes. The obvious contamination should be removed, but that m not

sufficient. It might contem inpurious bectern unless on filtered it through a filter. 6420. In your openion a good deal of summer distribute is due to ampute, duty, or framented milk?... 6421. Do you think that milk should be esseed down

after milling, so as to pooling the time before the fermentation communication. Yes, and the cooler it is kept the purce at out remain. then from the bacterin themselves. The CHARMAY.—Thank you very much, Dr. Timble,

6627. In it your opinion that the milk suggety is matter of extreme importance from the public health 6628. Do you consider that the conditions under which roll is supplied at the present time are abso-bitely ideal?—I do not. Dr. H. W. Barren,-18th February, 2222.

\$429. You think it could be comiderably improved? 6436. I take it that you have no authority to proceed outside the city area for the purpose of making my improteen in connection with the city supply!—Noor,

663L And then only under a magnetrate's order?— es. I may say that we have reade visits to the tensity, and have been allowed to make way.

6637. But you had no right to enforce the majorition
if it was objected tot—No.

if it was objected tot—No.

6454. Do you think it is any unfair competition that when my you take it is any other competition that daily Accepts in the ordy, where the Daries and Cow-shods Order is strettly enforced, shaeld compute with other dairy-keepers in outside districts where the Order is not in ferce?—Yes, I think so.

Geder in not an leves — Ves, I think so, 6435. And you would be in invoor of a uniform spikbosine of the Onder?— Ves. 6480. Are you in favour of licensing?— Tes, I advocated that in my Report for 1907. 6407. And you would make it is condition of locessing, that a person making an application should be one whose character should be our revessigation, and

6438. And you would within the boarce, I take it, Issue a person who was persustently evading the regulations—Yes, I think the house should be granted for one year only.
6639, Subsect to renewal?-Xea.

6440. And that the local authority should have the right to refuse greating a licence if the explaint was unsuriable?—Quote so.
6441. Of course, it is not pert of your duty to make any maperation of the premises in which cows are kep4?—Well, I have done that up to the present.

642. You have made unspections?—Yes, frequently, 6 source, we have a Vetermarian. 6433. I rether thought it would be confined to him or to the Dairy Inspector; but you yourself have made

6444. Do you find that the purveyors of milk in the city area are willing to conform with the regulations. the recommendations you suggest?-Generally they do, 6445. Taking them as a body they are reasonable from that point of view 5—Yes, 6446. With regard to the important of milk-shops, does that come under your purview?-Yes. \$447. Do you think that the conditions under which 644°. Do you think that the conditions under which walk is sold are conductive to the public hardle, and to the project leeping of mile, and supplying it in a pure sed hypicalic condition—I which the conditions under which milk is supplied to Belfast reach a high standard. Large combres have been removed from the list owing to their not conforming to our regula-

648. Even you sometimes refined to regular premises that you believed to be unsettable?—No, you must register first and take your proceedings after-wards. That is one of the faults I have to find with 6449. You must regater industriminately any person who makes application, whether his parentes are suri-shle or not?—Ins., and you have got to worry over all the defects you find afterwards, whereas if he is

conform with our recommendations he will get an adjournment from the Court. 6450. The administrative authorities do not always force the Order rigidly?—Yes, I think that in Belfast we enforce it as strictly as we can. 6451. I mean the Courts - Well, I think if they were a little mees severe it might be better for us.

6402. You do not thunk that they meen to realise the importance of the efforts made by the Local Authority to ensure the fulfilment of the confittons under with to convers the numerous of one commons makes the Order &-I think they do; but when you hring a case to Court there are many conditions put forward. Then are always two sides, of course.

6453. And then the good nature of the authorities is imposed on in some instances and time is given, and the administration is considerably impeded?—Well. from time to time that occurs.

6454. Under what conditions have you prosessed the occupiers of these stores before the magnitudes... for breaches of what conditions?....We have prosecuted for toraction or warm.

them for durty byres.

5455, You are dealing with the cow-keepcest—Yan,

them for dry wyres.

5415, You are dealing with the cow-krepces2—Yas,

5416. Are there not some previous of milk who do
not loop cows at all?—Yes. Our precentions as
where we find the milk uncovered and particles footing 6457. Do you ever presecute for storing the milk in untuitable clases?—We notice them of thee, and they

not curry out your recommendations?—Yes, 446. That is your craimer?—Yes, ar. 6400. Have preservices been meditated by your want of clearliness on the part of presons in the milk trade—for dirty hands, for

8401. Wast sort of penalties do you get imposed in nese cours?-5/- or 10/-.
5602. That seems to be a family considerable fine for

these people.

600, You would not have so many pressoutions?-I think not.

6464. Is it due to the oureless habits of the attroduction themselves or want of proper supervision on

6055. Yes .- Wall, I think it is want of supervision 6050, ICE-WELL, A mane is in man or open on the part of the owners, because, as a rule, they are supervising the work themselves. We do not have are supervising the work themselves. We do not have many of three cases in the city. The city soft is 6666. You think the milk produced in the city itself

under conditions that are more clearly healthy than the milk that is brought in by rail? In any respection made by your Inspector of se milk sect in

is city. 6498. I mean when it is delivered inside the city what steps are taken to see whether is is already or otherwise?—There is a defect in this Order, because 6450. So that If, in the cedmary course of his dur

mile was supplied were to a first client the world have no opportunity of proceeding for this share. Note whatever, I have seen milk myad is a condition that I highly desupported of, and yet we were powerfess to do sampling.

6100. Do you not highly these short was the condition to the condition that the short was the condition to the condition that the short was the condition to the condition should be improved? I think that if in Article 18 of

or remainments, we seem proceed against the con-signer of the dirty milk.

6972. Whereas at the present time, no matter how dirty the milk is, you led you have no power?—That 6472. Have you ever notified to a Local Anthority where such milk as that would be sent from, that you had discovered that the milk which was being non into your city and raised under their topervision of

they had any-was in an ingless condition?-I am quite certain that we have notified an Authorite but we have notified the person from whom the mile come.

6478. With what result?—Practically sons.

6474. Did they defy you?—I would not any tind,
but by and by when we take a sample we find it again

6475. You had no practical results as far as the improvement of the null was concerned?—Practically

6076. We have already had evidence from Dr. Thomson and Dr. Trimble with regard to a mife Thorsess sen ur. rimine with regars to a sec-sipally being a source of infection, and it is unneces-sary to bring you over this ground again. Are you in favour of basing all persons connected with the wending of malk subjected to the Widal test for the of ascerbazing if they are typhosi corners? would not go quite so far as that. 6477. Do you think it is an unreasonable imports to put on the people in the enging of their livelihood?

think it would be resented severely 833. I 1800x it would be reacted severely. 6438. Is your finish in the test not absolutely fixed, or do you think its application would be subjecting these people to an unnecessary inconvenience?—From was people to an interconstruction of the object of the many own experience at the city, we have shad only shouse one areall outbreak for each you for four or fee years, and on taking steps to prevent the milk coming as we adopped the disease, and the point is whether it would be good peloty to subject all these people to the test fee the sake of an occasional one like that.

6479, Of coerse, the other aspect of the experien or

neglect?-I would not obsect to it, had I would not

6890 Do you think it would lead to a restriction of the sipply?—I would be afraid it would. 6681. You think you can only proceed at the rate of speed public opinion would justify at the comment? -That is so 6692. You can sourcely aim at ideal things in the first instance?--I think you must educate public

remone.
6885. You are in favour, I see, from the summary
of your ovalence, of compulsory cooling of the milk as

5084. Has your attention been directed to inher-culous cown by the Improtors—Tes, as a few

5885, On a couple of occasions you have had the saincals slaughbreed?—You. 5895 Of occase, bear are some oows that are christally discused, but there are other cases which are doubtful and problematises. What steps are taken

6697. And do you find it is objected to by the owner? -In sect cases, but not in very many.

6888. What results have you had from the application of the test?—Tuherele has been found on several

6680. What became of the suimals?-We had them 5450. Your Public Health Commutes never besttutes to displace an aritral as soon as it is occlaffed to suffering from teherculous by the Imperior?—No.

operoid with you in the elimination of inherenious cows from heads. They are generally willing to co-operate, 6485 Are you of opinion that the same regulations

which govern the production and sale of milk should also apply to reffe products?-I am. 6496 And you would subject people who were engaged in this branch of the tinds to the same restrictions that you would impose on milk vendors?-

Quite so, tennes I cames are sant unit as survival to provent butternelli conveying fiscus: The churchy temperature would not bill the becture. Besides that I do not thenk that the people who make butter and do not sell the mill are very careful where they mere the milk I have seen it is bedrooms and to hitchers. 6495. And in all sorts of ununtable plants - Yes. 6496. Except in the two cases to which reference has

ever transd on outbreak of infectious disease to the wilk supply from outside areas? I receive out milk supply from outside areas? I premine one of those you were told about was the 1906 case. 6497. One was in reference to diphtherin?—There ets an outliesk of typical in 1906—twinty-size come

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a typaced carmer, and strange to say, she needed with a creamony previous to that, and the same 1600 WHE is assumed by process of the control of th

-the milk supply was stopped by you?-I was not us

office then, office was noting at the time?—Yes. I should things had some so the Public Health Committee, and it was settled secondly in that way.

6000, You really had no legal power to facial the sale of mile, but the owner of the dury yard recog-

would be power to have senses, the an area out to be compared with the dairy who was ill, and there had been a doctor attending the dairy hands and he found so typhosi. The couse of the infection was discovered nondentally. The members

of the Public Health Committee temperature of the milker hard, and examination was made and semething was discovered.

6983, Did that mun abandon the trade or take its
up again?—I think be abandoned the trade altorother.

6504. Of ocurre, that is one of the propose of danger that restrictures to the trade may compal people shandon it altogether, and thereby decrease the supply?

—Yes. If there was theoretic cleanliness at the source -Yes. If there was theoretic commands and of supply, and mapcelion of the dairy hands and of the outlie from time to time by the dairy improver; the ottle from time to time sy the deer improver, that would be a very good means of protections, 6596. Can you say whether the oblighee of the working cleases in Balbatt pet as reach milk as in necessary for their proper development.—I am afraid beauty for their phops a recognition on an ansiter foot, that very many of them do not get it, and at condensed mik is used. They my themselves

that they are too peer to buy nelk; but it would be better to huy pens milk in small quantities than to use this other milk. 6600. It betwee confermed milk is not more coccounted to two me eather than the ordinary milk?—I think it upon the tending milk is more than the confermed to the form the large manher of this poccer people do not take a large manher of this poccer people do not take a large manher of the poccer people do not take a large manher of the poccer people do not take a large manher of the poccer people do not take a large manher than the pocket that the pocket is not take the pocket that the pocket is not take the pocket that the pocket is not take the pocket that the p

before exposed, they was speed more manay on mass. 6307. In it a question of price, or the want of appre-cations of the lood value of mult, that powerous the powerous from gotting a sufficient supply?—In many I think it is went of appreciation of the value 1508. So, in reality, an entrentional movement needs

children are to prove up attorny and healthy they most give them more milk?—Yea, one buly Health Visitions 6500. But they council reach the roture population? - Bills. Any development of their week would be belgful to your officer in corrying out this idea N-Yes. 6311. Lady Evrasum—How many con-leopers are there in the city of Bellistin—theori two bundred. 6312. And how many mile shape, and negation of the sw-keepro?—Between 1,800 and 1,800. I should say, 6313. In the milk for the hospitals in Bellant

topic to use mith nor met hosperess to norman temperated?—Yes, and samples use taken from temo to 6514. And it is usually good milk?-Yes, used 6615. Do you know snything shout dried mile?—I'do not know much about it. I do not think it in unon

to it. The main that comes in from outside memors by real, how is that imported—are samples taken of 27—Yes.

6617. Where 7—At the reliway studient, in course of 6518. And if the case are durin what is done?... We have practically no power to do snything.
6519. When you take a sample and find that the

947? When you care a sample cast and that the will in dirty, you can do nothing?—We might con-drum the malk as unit for food, and if it did not torn out to be when it looked like there would be trouble.

222

Dr. H. W. BARGE-13th February, 2913.

that is why I recommend a chance in the 18th Article 6521, Lady Evmun,-In Dublin evidence brought before us that milk was kept in each in the

heroign beside on the since was keep an even in the hence, apact from the shop, and that samples were refused to the Icopector F. If it was a unificately, and the milk was fer mile, I do not see what was to prevent the Euspector getting a sample. 6882. Yet outlik not pp into a back oven apart from

shop.

The Courses, What Lady Everard words to having milk stored in a place makependent of the story, the vander can ellege that the malk in that particular

6024. Has it ever secured here?-No. +505. We ware told that it occurred in Dublin, and

afterwards went in they told her they had no milk

6009, Ludy Evanuer, Is in your experience that the outside desires supplying Bellast are requirered, to the best of your belief?—They are not. 6027. Can you not unicem the Local Authority that they are not registered?—We have done so from time to kime, but you see the question is a very delicate

6328. The dairyman is bable to a fine if he is not registered?—Yes, but I have no recollection of sexual say fires for that. The difficulty is that if we brought this ease under the notice of the Local Authority we would be exposing our own Inspector, and probably he would not be allowed into the darras in the district.

6329. We have existence that your Impector dose course, we have evaluate that your improve noise go cuttails the city area. —Our Enspector has gone out from time to time, and in the carly yours, my three or four years upon, he was allowed to import monitorily all the feature. After the Level Authorities

our impeditor, and then it became very difficult, and we did that if we gave the mome and addresses of the jeeple who sid not register he would be badly received when he went out again. However, as a matter of fact, we shi gave asses by the Local Govern-Board that we were not estaded with. They wrote to the Local Authority,

6500. Was any action taken?-Well, it was promised that they would be more careful in the future.
6681. The male purveyors in Belfast, do the a book containing the names and addresses different places that they receive their milk from?-We have not asked for that.

6682. They are bound under Arisels 31 of the Dairnes and Covalueds Orders—I know that, 6685, Mr. Witzers—In your experience, he you think there has been any change in the volume of milk sold in the efector of Bellias—he is increased or beschild. Well, in my opinion, bescend?-Well, in my opinion, it must increased, because there to no want of male in I instrused, occupies there is no want to must in Amand.

6684. You have heard no complement—Except that
I heard from a wholesale prefilement that he could do
with zecon milk if he got it. That was the first I brand

6335. You do not think that there is any reduction due to the enforcement of the Order?—No. Another point is that if the octant sutherities would were in point is that is one occurry numerican noise were in harmony with us, and allow us to imprest their darries, they could assert us. In fact, an impactor in the country told me that it would strengthen his

6386. In Roghed this right of outside inspectage has not led to fraction?—No. 6587. Looking up your table of figures with regard to the milk supply, I see that titty-six numbes were analysed by Professor Symmers for tuberels. These market milk of the only !- Yes. 6698. And might be taken to represent the fulr

\$250. And so far, except in one ower, Professor Symmets has forled to find tuberole in the market rank of the crtv?—Yes, that is se. 6543. And what you would like to propose is that

6648, You have not, in point of fact, made not of that power, for the return that you have not found 6346. What are your sieus about the proposal of a Numeripal damy farm?—I think it would be a good

6645. Workshir?—I think it would. I would like, fund on a small scale?—You.

6547. How is it made up, and what happens to

the menory?...It is made up by veluntary subscrip-tions, and there is a box kept in the Crty Hall, and the they get a deserving case they supply the person with a book containing fourteen tickets, cash for a person a book containing four-ten tickets, each for a pint of null, and we promotely try to see that the milk is hought from a supply that we have confidence in. 6648. What does that amount to m meany for the year?—Between £70 and £80 a year. 6640. I gathered that you did not consider that the ordinary actions in this only took coverple radio as his bouse. Would you consider that the problem that Bellast has got to deal with is largely a question

t a constant milk supply.

What about the sirlled indemnes - You 6000, What about the striked and camen?-You would find in money cases that a pint of milk would a whele family. 6551. For the day?-Yes.

6001. For the sayr—1es. 6002. I suppose you wend save with the other evidence we have had before us, that the long toke stached to children's feeding bottles should be made illugal?—We have been preaching it for years, and it in legely being does even precenting it for years, some of the first state from the point of view of having them detaily and not easily tranged T-Fe, I think that

should be done. 6666. You spoke shout the necessity of compulsorily cooling milk 5—Yes. 6555. Pitty degrees, of course, is an approximately workship temperature in the summer months with cedinary at spring water?-Yes. grt is lower than that would myolte expense 5-Yes. 6557. Because it would involve the use of any !-- Yes.

6558. And with regard to the other standard of besterial content, would you consider it satisfactory to use the sfundard Professor Symmers has used?-6550. You have no standard at present in bacteria or temperatures.—No, none is fixed. ecco. Mr. O'Bains, Do you advocate the sized. Mr. O'Billion.—Do you advocate the claughter of all aremain at the public statters under mutational direction?—Yes. I am in favour of that

I shink that to refeer a burning question at the pre-6561. Here in Bellass?—There are only a small number of private shoughter-bourse in Bellass.

6962. The butchers, as a role, do not singister the summals for food in their own premises?—Not as a

6565. You look on that as pather a source of danger to the public health-this private slaughter?-Yes, 6564. And you would prefer to see all the animals shoughtered in the public sharitoles?—Yes. There are only about seven private shoughter-bennes in the city. and we expect that they will disappear in the course

6565. Would you advocate the matelliotics of milk throughout the city from sentral dapois in the dif-lercest areas, either several dapois in the dif-lercest areas, either several by the Montephity or inside the direct approvious of the Montephity, motion of havong person pulsaritude distributing milk and and from different sources on at viduals from their own depote or dames in town?-

6866, Too would material advocate having all the dlk that is brought into Belfact for distribution trought to definite summingal or publicly recognized depots in critisis areas—the town being directed up rato certisan definite areas, each with its milk depot, and that the milk should be distartated from these acpece; do you thuse that that would help so getting a show strpely, and also in preventing conformation from contact of infortuna disease?—The plan might appear to be very skeal, but I think it would be very

6207. Exposes exacted by the salaries of the offibe so premptly delivered as it is at present. body set as promptly as private individuals?-

6509. Does the milk from the country go thought to the consumer's door, or come first to some dairyout There is a large properties goes to the depot of the bolossle men, and it is sterilized or pustcorned;

now you come impect more easily?—My opinion is that the milk preduced in the city is delivered promptly, and that it would be a markle to inter-ters with the present arrengement. 6071. You said that samples of rick were taken for eventuation at the railway stateon?-Yes. evalual?-As a uple they are not scaled

0773. Are the his properly attashed—do you find that they put under the hid duty please of cloth?— They put paper. I now a powspaper is use the other day between the his and the vessel, so the other 0776. And they dust's seal the vessels?—No. 6575. They are not looked up?-No. 6576. So that anyone could take out milk and put

in water?—It is quite possible. As a rule, we went before we take the sample, for the man who is about to receive the milk to come up. 6977. On the whole, do you find that the cultway companies treat the milk properly while it in its their charge—keep it in proper wagons?—I cannot say

tat. I thenk the relivas companion might do more, think they might provide a shed for the emptyles of the milk. of the milk. If they pro the rolk could be strained. 6578 Mr. Witson,-At the present time, there is no province at the railway premiess for the milk tends?-No.

6979. Mr. O'Brito.—I think it is pretty much the some all own Irrhand. You advesses the compulsory cooling of milk as soon as it leaves the cov?—You. 4590. Had you in your mind stything of the Darish subtent where they take out pulse as inchinese that they have a receptable for a freezing maxime at the botten?—No, because it might be expensive; but they provide one odd water in the scouty. If the

milk in set in cold remains water they one cool it down very considerably that way. 6080. That is supposing you have the cold running water handy b-I mean that the milk should be couled come to me that the cutedens can keep the milk as they with, while the people in the city are under very

1592 Str. STEWART Woonnecus -- Do renders deliver the mill: at the houses of the better

6083, And, in addition, there are a large number of milk shops — Yes, and there are some small dairy people who send the milk around in even. £284. It from \$6. to \$6. a quart the price of the redle za Bolisset?-Yes. fig. You mentioned that the working classes do not get as much wilk so they should?—Yes. 638. Does that arise from any difficulty in receive ing the milk or from poverty or agrounces of the value of the milk "-From agrorance of the value of the milk

6586. Are these of recent retroduction?—We have had Health Vantous for nine or 600 years. We had only two at first, and we have eight or once of them

6589. In addition to that, are there Babies' Clabs?

"Yes, weeked by the Womon's National Health Asso-690. As there lectures delived by the Women's National Health Association ... I den't say they have

That alternately must tell?—Yes. We went 8002. Too have had possecutions for putting pro-servatives into milk?—Yes.
6008. Do you recognize that a certain secret of 6008. Do you recognize that a certain secret of peaseratives is allowable?—We dee's allow say. 6204. Miss McNesse—In your Report for 1906, you

state (but his impostors reported that denotive sim-tetion is prevalent in the now sheds, and that the provision for light and ventilshon is very unsatisfied tory?—That is in the constru-6005, Does that statement refer to the country?-6206. In the nort passgraph the Impector states be discovered that there ere a number of now sheds that were never inspected or registered?—Yes.

6397. Have these been recentered smoot-We don't 6598. And you have no means of finding out, me the dury ownces thomselves.

6390. Your Inspector could not say that the number 6399.

experience I found in the country, in one day, attragistered daining and they were sending in milk 6909. Here they does been registered?—No, because

and that has not been elected for large days.

5211. Lady Evenan.—In the city?—No, exhalds.

6002. Miss McNunz.—You state in your Expert
that the number of milk sheps that cented to sell
milk in 1910 was 2017—Yes. mist is 1000 era gree-tie.

0000. Can you give the Commission an idea what
coused such a considerable number to give up the
sale of mile?—They came to get registered, and when

our Importer found that they were telling position oil, I wrote to any that the place was unusuable, and that was the end of sk-9094. These see people who have been trading as

5004. These are people who have been maning in some through other than milk which you thought unsuitable?—Yes. Scene of them wild milk in order to draw customers for something size they sell, and when the Importor gree out he finds that they me regulations
Med. I notice one hundred and severaly-nine new

somes were added to the recents ?-- Yes. 6606. Were the premittee examined before registrafactory, and they were allowed to remain on, 6607 There is also onother table here to your Report with regard to the emples of milk taken for

analysis. You give the number of samples taken of butter-malk as one immired and four, of which forly three were found to be adulturated, and thirty-eight proscrutions were enforced, and fines imposed amounting to £51. Later on, you give a list of samples taken of sweet milk as five hundred and arrenty-day. when contry-near preservatives, and convolutes were procured in thirty-three case, and the fires amounted to £88 10s.2—Yes. That is what we have to com-plant of means classe—that the fires are not suffi-ciently heavy. If the fires were heavier there would be been proceedings. 6908. Too fines for award milk were smaller in

6909. So that it was avidently regarded as a greater trame to askalterate butter-milk than supert milk?—

6610. The CHARRAN.—Sweet milk is much more important us a food?—Yes, I think the fines are too

ha one case—a sample taken in July—you say there was 187 of lake and 769 of solids not fat?—You, that

shows relationstons of water. 6612. In December, you say, that the percentage of lat to a security was bull seed of solids, 3-522-J think

6618. These was a preservation in that case?—Yes, 6616. Do you recallect the fine that was imposed in that case?—I don't remember at the moment, but I 6615. The CHARDEAN -That sooms a very flagment

6616. Miss McNent.-I see in that lowest pur contage in the table that you have 3 per cent. of fate and \$70 of non-inity solide—was that supposed to be poor milk or adulterated milk?-Thei would appear to be good milk with water added.

6617. The polida are low?-Yes. 6618. It would be interesting to know the fine that was imposed in the case of the sample that contained The Curreto. If lets and 803 of non-fatty acidit. to the fine imposed in that case, we would be able to measure the importance that was attacked to

fisguard case 5-Tos.
6619. Mass McNumz.—9460 was your highest percontrare 9-Yes. urbogs "—You. 0620. That was also in Doomsber "—You. 6631. The highest and the lowest were in the same

6662 The Countries -I take it that the situation so for as Bellast is concerned has become more diffi-cult than it was by reason of the future of the editoring Authorities to co-operate with the city Authorities in securing inspection?-Yes, is in for the

month?-Yes

9928. The condition of things is worse, soil geoloally con-knopers that they need not submit to the inspection of the Belfast Audiorities - Yes.

6924 Unless correcting is done to obviate that ex-curreducer, the conditions of the Belfast malk supply 6605. So that the question is a burning one so far

as Belfrat is concerned, and some alteration should be made to enable the Public Health Authorities to

fitting. And as time goes on this difficulty will increase.—It is not the damy men, we believe, the are at the bottom of refrancy or this projection. We are led to believe that they are being led to do it 6037. Lasly Evenano,-In the summer the

are kept in the city, I am sorry to my. 6608. When they are outside your area, they are they are outside the ofty area they are outside our

6929. As far as you know, they are not impected by the Bural Authority into whose area they solve No, they would not be.
6600. Miss McNimi.—Is there much artificial feel-

ing of infants in the city?-Not for the first two and when the mothers find it necessary to so to well they use artificial faciling.

6631 I surpose that the mothers who have to so

classes?—Very often a mother has to go to week 4603. And they are not in a position to buy the boot substitutes for sutural feeding?- No. sees. What is used as a substitute for the natural densed sailk, but that is only the smaller

6634. Has the Municipality over considered the establishment of Enfants' Milk Depois spect from what is being done by philinthrops effect, such as is done by the mamarpalaties on the other side?-That was

KKHI. They did not think that there was any need 1835. They sill for terms time seven was obj.

in the inferest of the circums to supply, by minimized
effort, any shortage in the feeling of minimis?—No.

With regard to the power inferts, they thought it
better to contribute in the way they have done

6686. That is not done by the Municipality as a unacquality, but by individual members—public 6687 That is rather a casual, independent effort

6688. Does that fund amble you to deal with any large number of infants?—We deal with a fairly large 6689. Could you say how many infants you assult in the course of the year?—Probably over four

0040. You must have spent more than 470 or 480? -We might have to help one for only a few weeks. As soon as the father gets work, we would stop the fund. We give the milk to take over a difficulty. 664). The CRUITEAN.-What would be your per view with regard to the application of muci sould think for the purpose indicated? Supposing the Belfast Corporation came to the conclusion that the death-rate amongst infants was higher than it need

be, owing to the improper fooding of infinite, would rea consider it a policious and proper administration of public funds to devote portion of the rates to supply people with mile in these indigent circumstances would, but I could not hind output. My view is that it would be well-spent money Think you very much, Dr. Baille, for the important-oridence you have last before us.

### Mr. James McBerne examined

6642. The Charless.—You see a Dairy Inspector maker the Public Health Committee of Belfast 6645, I am tidking, in the first instance, of your cedimize duties. They are, of course, within the city noice the Corporation?-Yes. coop.—Its.

600). Mr. Wilson —Any inspection you make out the facty use collecty illegal?—They are.

600. The Charman.—Even in Belfast you occurtions do illegal though in the paths indeed. Wil-6643. And your duty takes you round the cowsheds of Bellast?- Yes, inside and outcode. 5644. You do make inspection outside the city?-Yes, once a year.

Mr. Janes McBring,-13th February, 1918

regard to show who are percedutely way impose, and carry out the changes you rapped with regard to their stock, and to the measure in which their recenter are knot- They do now. 6608. How meny yours are you in your persons

positive?-Pive years. 6869. And you think an improvement has taken place as respris the feeling between the administrative 6650. For non-observance of the conditions suspeed in the Durner and Cowshells Order?-Yes.

6651. Has that manber increased or dimminhed?-Hold, Has that matter section of animals of the property of th weehal notices.

come to recognise that it is to their own advertage, as uite so, sir. 6637. With regard to the examination of cows, do

6637. With regard to the examination or cowe, so you maper to be toberraless—this remain that you suspect to be toberraless—If I find an amount with a hardward swellen quarter I seport the matter the Vetermarius.

1808: That is in the older 9—Yes.

0039. The Veterinarius exumines the cow 5—Yes.

8660. Is her milk put into the bulk?--No, sectably

0 6661. Not sold at all?—No. 5652. For what purpose would she he kept under characteristics 7-I connet answer that; the Vetermanne

6666. Once you have descharged your deav in reporting her an mappeness she passes into the jurneliction of the Veterinamian?—Yes, 6064. Do you know whether these are many nameds

condemned to be alsoghtered by cedar of the Veterinarian?—I caused my Chat. 8465. Who fare the compensation to be pard to the owners of the numeric that are alsoghtered?—The

6006. Have you had many pronocutions of a persistive for non-observance of the conditions

office as as place of the second seco 6660. Do you find still occanionally that there is some excelanaces in regard to the bubble of the pensons who are engaged in the making of the cows?—You.

6670. So that if needs construct expervision to keep them up to the skeeds:d?—Yes, I make surprise vasite is the morning, in the morning on never tell when you might on turn in?—Yes.

not turn in? I'es.

(652) Are the con-keepers sasteed over the only or see they within a contricted aren?—They are settered over the city.

2073. Do you find the dulry besiness carried on an the receipt of manure intereses?—No.

6076. Have you say difficulty in propering prompt sensoral of the manure from the co-

are supposed to remove 1L. re supposed to remove 11.

6075. Do they keep the nurface of the yards cleanly
red are the cown well helded?—They are well thro. Do they keep me method of the years change and are the cown well bedded?—They are well grouned, but it is difficult to get bedding. Show it

up to aye a cws.

6876. An these cows well fed?—Tes, in fown.

6877. Do they give color to the cattle?—They get
bruised com and yellow meal and oil color. SETR. Do they me grains as a food for cown?--Yes. \$679. Do you approve of these as a fooi?- I would rather are them not feeding cown on grains,

the regulations, or processed for breather of the law, would you continue the licence to him?-No. 6710. You would make it renewable annually, as in the case of the lique Brence?—Yes.

time. You think other foods might be better?—Yes, time. Have you over been compelled to order the reconstruction of a byre?—Yes. 9082. And have the owners been willing to undertale the capital express necessary to easy out the supportment you directed?—Some of them were, but the becommunatures.

belo. What number of now-keepers would you say
have gone out of the trade in nonaequence of the ourdirects you felt hound to impose?—Forty at the part

100 years.

6084. That would be between two and three per cent of the entire number?—Tes.

6086, Would three be large or small now-keepers?—

6686. So that in reality it would not have a very 6587. In all, is much not smooth to more than the keeping of twenty or thirty cons?-I should say that

6688. You do not know what becomes of the spirmal

snower that.

6890. It is no part of your huntees?—No.

6900. Because that custom does prevail in other
parts of the country. Its provision made in any daily
years for the weaking of the hards of the attendenter?—

8601. As to the lighting, how is it donn?-Some by electine light, some by gas, and some by oil.
1882. Do you find any difficulty in convincing conknoppes that it is descrable to give the animals reason-able air space and ventilation?—I dad at first, but

6056 You found at first that there was a prejudice in contenes.—Yes, 6694. Do you make may suspection of the gover when they set in posture ordade the municipal areas. Yes.

6896. Do you make inspections for the purpose of service. Do you make inspections for the purpose of secretaining whether or not the vessels are purposely cleaned, or whether there are facilities for washing the bands of the milkers when the arty cows are or grand—Yes, as a rule they have a backet of water. 6000. That is proposed, as a rule, from the neurost gripe?—They have a water supply last on, or, as a

gripe "-like" save a water suppey and on, or, as a rule, there is a poung or a minuse stream. 6207. In it not part of your bouldess to impact the milicohops?—No, it does not be in my way. 6208. You have nething to do except imagest the cowheds and yards and the apperiencess connected

0000, Who regard to the milk at the realway cases, have you made inspections?—Scoretness. I have found the milk drity, with hay and stew on it. In a great many case, they never attain the milk, 6000. The condition of the weaks would not be verappetising to soot sty...No.

6701. Do you consider that you have no power in this ruse to take say notion?...If do not think we have.

6706. You proscoute the man who is not in any way for the condition in which the milk is 6704. And the only way in which you could entire

on.

6706. And you might not be able to convince the supplieries that it should be conformed?—Yes.

6707. Air you in favour of Brenzing?—Cirrhunly I 6706 Would you mean licences inductionantely

to all who would apply? Not if the permitten were not right.
6700. You would consider the character of the applicant, and if the man had been persistently availage to the law.

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Mr. Janus McBusse. -- Dith February, 1922.

6711. Lady Evenum,—Could not the Inspector of Food and Drops condean durty milk?—He might sales it, but I so not think he could condenn it. 6712. It seems a dreadful thing that duty milk should be discentizated through the city. Could not the malk he sensed when it quives at the promises of

could.

6718. Is that over doze?—No.

6718 Mr Winson.—What about your inspection
outside the sity?—I have photographs here of hyres outside the city area.

6715. We, O'Bagar, By what authority wise, mr. O'Brins,—By what sufficility do you suspent the dany-loopers cutsule the city of Belhart?—We have no sufficient, I assume the authority. I amount a tremare-OSE A.Le you not running the danger of an action GPM. Ale you not running the danger of an action being brought ageant you?—No, I don't think as. They are all very vides to me. GPT. Mr. Whisex.—Is that photo typical of what you see farmine with in the outside districts?—Yes. weshed; fleer of stones and carth; manuse hear close

- Free, cuttaile.
- Tree, cuttaile.
- Tree, cuttaile.
- Tree at Wilson - Are you satisfied with the -100, Gassach.

6783. Mr. Wilson - Am you satisfied with the powers you have under the present Acts of Parliament for controlling the trade?—These might be one or two slight alterations two slight alterations.

6722, Mr. O'Berra.—Do you think it would be advisable to have a register of the people who supply the milk?—The shopkeepers keep a register of the names and addresses of the people they get mak from. and they will give it to you.

6725. The shepkerpers sen tell you the milk come from a certain form belonging to a certain man?—

6724. Can be also tell you hon many men that man employs in his steay and looking after his county -80. 6785. Is not that just as important really as to know what form the mult comes from?—I durency it 6736. The contamination of the milk may come from stem of the presons who are harding the milk and one of these persons might be a typheld carrier?— Yes.

6727. Do you not think that it would be well the Municipal body were to keep a register of all the people employed in the null timbe?—Yes, it would be

6738. The CHARGES.-I understand, Nr. McBroin. that you have presented outsin reports to your Public Realth Committee, in which you deal with the conditions which you found arising in the outside account Could you give us a shart secount of the conditions you give an about second or an accommentary you form carting in these could a rease?—I will give you a few — On the 15th mat. I attempted to Suspect sitteen duty frames outside the County Becough of Beliant, in County Athins, from which mult is connegred to the city in any instances I was reduced permission. In the townloads which I was reduced permission. was reduced permission. In the torrelands which I would I found to improvement since five freme visit in Marcia, 1911. The buildings are of stome and lime, and quite a member one fluidated, the walls inside ane rough broken, dirty, and coroned with deast, while the ceilings are featoured with color than the country of the color of the color

may a few feet from the byte door. Judging from the on diffin of these cow sheds, is my opinion the militing could not be carried on in a clearly massic. I may add that in two cases the owners informed no the bree has not been cleared for three days; I found in two cases page under the same roof with the right sears. Two of the shows defines have never been registered nor inspected." Another case, November, 1900. That in the occupation of Mr. — , G. Dora, The daily a registered and officially inspected. trin daily is regarded and discouly inspectes. No windows, not providing for ventilation; no dramage floor paved with stopes and earth; full of holes and accomplation of Beuid matter; wells rough and perreleast here have been immershed; measure here against gibbs of byre. There are two laws there has against gibbs of byre. There are two layes, but sumfar. I found in No. 2, 5 goors, 1 bull, and 3 pigs, which were in a dirty on dirties, with po healthing of any description about dition, with no healting of any description about them. It would be impossible to describe the condu No. I byre—no windowe not provided for ventilating five poved with cobile stones and earth; wills rough some as No. 1, wooden structure; I now and 3 entre in a filthy condition. At time of inspection them in a filthy condition. At time of Haperson users were six reliens of milk in byte in a carrister cas, Bight gallons of milk are sent daily to Mr. --Beltan.-November, 1910. That in the corepation of Mr. ...., Co. Armagi.
This darry is neither recisioned nos othersilly inspected.

daily to Belfast. That is the occupation of Mr. -This driry is registered and otherally suspenses, and seatherful help foor pared with stones as such a sale very ready and drity; come in very drey condition. Fifty pillons of milk delivered daily, condition. condition. Pitty pillons of milk delivered daily.

That is the occupation of Mr. ——, Co.

This dury is registered and officially inspected; in with stones and earth: walls rough and very surts. with stones and carea: while rough save very hydrogist discharges into minime heap close to larve; hydrodismost through hale in wall. No. 2 cowoled in cleaned through hale in wall. No. 2 cowahed in similar condition. The owner informed one that he Twenty gallous of nelk remigned daily to 6729. Lady Evryum,-Are these registered dairon?

-Some are, and some are not.
of St. The Character.-But apparently the registertion moves nothing ?- I would not count much on that-

6751. Lady Evenue,-He did not appear to be cortinh"—No.

6732. Do you know denice near the town that how
not been registered or impreted?—Yes,
8735. Yes have no 1984 to take my stops when the
dury in not negletered?—No.
6736. The Chartways—West the owners of there dames that you have described in any degree adverse to non-mappedien?—Some wees. In our district I made one immered and right visits, and therty-five made one immered and orgin visits, and turny-ov-cow-lesspers refused to allow me to imagest their per-mises. In suether district I visited thirty delices, and fifteen refused to allow me to make an importion.

6385. Do you think the schools are importing.—Yes

The Commission adjourned at 6 p.m. till the following morning.

# EIGHTEENTH DAY.—WEDNESDAY, 14vs FEBRUARY, 1912

The Commissioners resumed their Sittings at the City Hall, Belfast, at 10.30 a.m.

Present -P. J. O'Netle, Esq. (Chairman); Lady Everard; Miss Mangaret McNeill; Sir STEWART WOODHOUSE, N.D.; ALEC. G. WILSON, Esq., DERVOD O'BRIEN, Esq.; and Professor A. E. METZAN, B.Sc., M.B.C.V.S. S. W. STRANGE, Esq. Secretary.

Professor W. Str. C. Strewens, examined. 6726. The Channes,—You are Professor of Falhalogy in the Queen's University, Belfest?.—Yes. Milk Commission was coming to Belfast. I am not particularly in favour of it. If you would like my

6337, And you have carried out some analyses of milk for the Municipal Authority of Belfast?—Yes, 9738. For how many years have you been conducting these complications?—Thus is the end of the fifth year

6339. Speaking generally, what has been the result; bere they proved that the nulls is moderately pure and free from disease germs?—I think so. That is the general supersiden that I have get from an examination \$340, I should be obliged if you would do no? ... I

from 1907 to 1910 melunye, that is four years, that I have exemined 529 samples of milk for the Public Health Authority at Belfast, Of these, 273 enum from without the city boundaries. The remaining 286 anaptic enem from within the city boundaries, so fir as I know. In these 519 samples there were color bould, by which I mess exceeded bould, present in 32 cases with sig per cc. of the samples of valid, consumer for the principles of the control of the consumer. for this principles of the control of the control of the for this principles over the control of the contr bedill in their quantiles. Of these 22 cases, 22 orders from milk that was sent 1600 for mily from valued. That leaves us 9 cases only in which this entrasmanded milk was subsected in the city to fire at 1 know. At the same time, of their best of the 10 know. At the same time, of their best of the 10 know, at the integration of the 10 know, at the 10 know, at the time quantum part, with a row to determining or other was the penance of tolerals bedill. I had only one positive meals in the whole of these, which, of course,

is a surplaint stant.

674.1 It is a very printlying results - Very greatlying, indeed. Thus, thus, is the general impression that I get from these four years. It has sufficiently be for the set of the surplaint of the set peeced is at peaced in the lands of Dr. Eulis, and Modessi Septemberdord Officer of Health, and I have not yet supplied them estimated by the surplaint of the set of the surplaint of the surp

the milk for adoleration of that type, believe, is done by Mr. Totten, who is employed by the Musicipality for that work specially

conjugated by the Stutting was the thirt—Some, 6148. By you have no reagonability for that?—Some, 6548. Have you had experience elsewhere of coming work, stid, if so, here does your experience in Edited compare with other places?—I have made e certom amount of these rulls exemination while we Egypt, but it was not systematically dose, and it was done more in my provide than in my efficial expensity, and nothing exercisely to which it do in Bellish, 6765. And, of source, the conditions would be quite different from harm?—Yes.

6740. The exeminations por conducted would enable on to determine whether or not there were because besilli in the milk that you tested?—Certamiy, air.
6747. And only in one individual case did you
discover this implement condition?—Ten, in one only. 6748. Which would seem to indicate that the dairy

heeds of Belfrat are wonderfully immune from the particular disease?—They seem to be unusually so. 6749 Are you in favour of the application of the Withit test to those cogaged in desking with milk in order to determine whether or not they are typhed carriers?—I expected that question, of source, and I have been thirties shout it lang before I throught the particularly in favour of it. If you would remarks I would be delighted to give them 6700. I would be very glad. In the first instance do 6720. I would be very glad. In the first instance do you believe this a deager arises from the possibility of people suppyed in the milk finds being typhoid carriers?—Of that there is not the slightest death. I an convinced that there is a positive damper.

6751, Will you give us your reasons why you see
not in frequent of the World test?—To begin with, these
as the possitisal difficulty, which could be errecome,
that it would require on enterious innount of below &

is no guarantee that they are excreting typhral beeffit.

In the next place, even if these persons do not give a macilien it is no goseensee that they are not typicall corriers, and, leady, if you get a postfere result in those cases, it would be necessary to examine the urine and the faces of these people, in rey optimion, on more than one occasion in order to determine defaultely whether they were designerous or not. I think that all this secant too much work, and is too indefaulte to be at 5752. You do not believe that an expanditure of

public money, and the monoverment to the people engaged in the tude, would be justified by the result? —I do not think so. Would you show me to add an arcendit to what I have said? I think of source, if specimen to what I have said? I think, of course, if there was library in a particular ducty, then it might be one's drive to examine with the Widal test; but, as I understand, you masp all daines, whether there was of public manny to apply the test to all persons bundling the nulk?—Yes, I understood you, and I do not believe

6756. And it would be only where typhesi fever occurred and the milk supply was the suspected mans, of the trouble that you would be in fewere of the test being applied?—Yes. 6755. With regard to diplitherts, there has been an unfertenate outbreak in this city within recent times, and the helief in pervalent that the mile

and the helist is permised that the mile and the helist is permised that the mile apply was the source of the infections. On nothing be done by assimilitie means to obvised this danger?— The only thing that could be door, so for as I can understand, as to determine whether there are basilit-

6057. Is that rescried by the people who might be subjected to it?—I do not leave from personal experi-once, but I understand that they do recent is. 6758. With regard to pastconsisten, are you in your of the milk being subjected to this process?...

No, Hz., a case are.

6709. Do you believe that the fixed propertion of the nolls are impured by subjecting it to that presently at that they are undoubtedly impaired. Way I do not know; but I know speken very frequently with cont who had a large expression in the trainment of the normal and are expectation in the trainment of the normal are made in equally good with now milk. eren. And you would aim at securing purity and

Professor W. St. C. Symmus.-14th February, 1922.

6761. And, I take it, you are still less in fevour of sterillaction?—Yes, still less so. sterillation?—res, sum sees so.

6716. Flast, of course, are a frequent source of con-tamination to the milk when the milk is exposed in 6769. Would you be in fevour of a more general atteriological examination of milk than is usually carned out?-Yes, I think it is advisable that it should be examined heateriologically.

6764. Of course, you have had no experience what

6765. Probably we will get evidence from the Veterinery Impector on that puriscular subject?-

6766. In there any other point to which you desire to draw the attention of the Commission, Professor citin, and which are used as milk assessly, should con-tinue to be so used or poil. That is to say, estimate not having any demonstrable union issues. I would like to point out, sir, that a tuberculan resultent is one that, although extremely useful, is any to load one estray. My reasons for saying that are lines—that astray. My reasons for saving that are increasing although a positive toberculin resolven indicates that an introduce of witherests, it continuity does not indicate that at the same time you get the prestificat the disasses as presents; and particularly in a chorona form of disasses the tuberculosist that it station is often given when the base is not selfvely progressing, but when it has indiced passed into what you might call the latent condition. And during that time the aximal could not be a source of danger either to other animals or human beings through its milk. I may call your estrution, say, to the fact that in human beings under the ego of twelve years accounts the electrons sensem or representation in summariant and is men, I do not think that the giving of a positive reaction in a valuable cow is sufficient reason to distroying that cow, attough I schull that should the distroyer that cow, you are running great danger. But I also vanture to give it as my opinion, that although tuberale becall have been found to pase into the milk from tubercolour animals whose others were said to be sound, still, if the olders are sunflected, the danger of the milk containing tobercle would appear to he at a minimum, and the danger from such cows is very slight, if there is may danger

6767. Will an animal in which the toberculor lesions have become dorminat give the semic reaction as when the discuss is active?—I think so, undoubtedly.

In human beings it is certainly a fact. 6768. That rather discounts the advantage derived from the application of this test? - I think it certainly does. 6709. You would not be in favour of the general application of the tuberculin test to all milk-yadding

opplication or the tearers in the wast mine years as a summar, whether exhibiting suspicious symplects or bot's—I would blue to answer these question in this way—II they were my success, and I was sathing malk to the peblic, I would subject them to the test. 6070. But you do not think that the local authorities or the city authorities should impose such a condition?

-Not at present. I do not think the time is ripe for any such thing.

6771. In there any other point, Protessor Symmes I wont to hash up our Middeal Officer of Health, Dr. Bulles, the tessess of my shifty, in particip, if possible, the power to inspect the dealter contains the benediters of Bellint; and also of harving issue product powers over the midd that is brought into the sity. Think, where all, if you will forgue me for saying fifth the strength of the proposition parties you as all. Those other hastconload and a grow our easily get from other hastconload and a grow our easily get

6772. We should be very gird to get your opinion on them?-I thank you. I roully think if we get more power over the places in the country it would be a advantage to us m Belfast. 6778. You do recognize that there is a certain danger arrang out of the milk sapply being sent into the city of Belfast as the Public Health Committee has no power of supervising that as they do in certain English taining exceeded bengli, twenty-three earns from our smalling extreme instance, were representable our own supervision.

6574. Yes, I noticed that, and it would seem to
make their the gravest source of dergee to the public
health of Belfast arises from the milk sent in from
outside the city?—I believe that is so.

Your figures prove that pretty resultatively?. 6776. Lady Everains,—Have you say experience of the private Acts of Pacliamont that are no force in Machester and Liverpool?—None windows. 6777. Giving the authorities of three often power to commine this the outside sources from which the milk examine into the outside sources from which his mix supply is derived?—— know they have this power, but I know nothing definite about it. 97%. You think this power world be of advantage to Beltist?—Then is what I want. 97% It upware that make the Dubecclasis Preva 157%. It upware that make the power to go and consume tom. As you said have the power to go and consume contain source of supply. Professor Michaely prough-

outside nources of surgaly. Professor Mathematical Debth the force we in the occurse of his reddence on Debth?

—I can not sure that that is well understood.

6780. In it not a fact that cover may excert a hard one day and not unother—that you may find beaft one day and not unother—that you may find beaft.

6781. Mr. Winson,—The one sample you examined, which gave a possible reaction in the games, pag, we that a sample selected from the ordinary market milit -No. it was a sample specially got by an Inspector 6782. It was a suspectors care that was tested to

sufern the diagnosis of the Veterinary Inspectori-6788. And consequently in the samples of normal market mells in this city you had no positive reactive? 6784. Would you think 389 samples of milk a roff. count number to reason from?-No: I should bly a great deel more than that certainly, because the

universal experience of other towns to their yest cornel examine a large quantity of camples of milk and get negative results. I sen surpresed that I have get such a result in Belfast, sad therefore I am not satisfi-6785. And you would recommend the Public Health Authoraties of this and other order to carry out exam-6786. To eatiefy the public mind as to whether Belfirst figures were true or not? I should like to see their

6787. As a routine system to protect the public besith?-Yes. 6788. Do you know what the figures are in other have had scores of those figures dealing with various parts of the world. In New York 15 per cent. of the milk is said to be subsecular.

6780. Are the figures for Belfert abnormally low?-Certainly they are. The only case that comes any way near that was the first exemination in Leverpool, when three samples.

6790. When you consider the whole question of pre-tering health, at appears to use that there are two distinct systems of protection which should be in operthe other was intercomposed authorization of the service of the part of the oscillator surface of the oscillator of these expectably would be sufficient?—No, I do not think it would. I do not think it would. I do not think it would be a sufficient guarantee. 

of genuine protection of the public health?-

6906. With report to the phrase I cond, "contains corted multi," I do not have that the table retrieval, and I do not have the table retrieval, and I do not have the table retrieval, and I do not have the table acceptance good harded in these tractsy them semples from the contains set of the tractsy them semples from the contains and the tractsy them semples from the contains and the contains the contains

recommend the figures you have given, train, by let out. —I then't that is fair crowth, the copy is not been given, train per per control when the fair crowth, the copy is not been per copy with the per copy with the per copy with the copy is not been per copy in the copy is not been copy in the copy in the copy in the copy is not been constrainted between the copy in the copy is not per copy in the copy in the

a tegal minimum over how music. You will notice these examinations have been music. You will notice that I have only got thirty-two cases out of over five handlers. offic, And every one of these cases is a case of gross contamination by minimum—I think see. offic. That miximum contamination may, of course, involve the last of tuberts handle reaching the colli-

tractor the lisk of tubersh baselli reaching the noith what that was a takeroplana halos somewhat in the autominant—Yen.

2079. I thank I am right to mying that Bellion is the only Irab rily that has adopted the scretiffer method you have followed in commercian with its mills supply?—I never get milk from any other phase except toon Bellius.

from Bellius.

6708. We have had no other evidence that milk was subjected to your method of analysis?—I do not them is no done up as this part of Eckent is very the part of the subject of the subject

color 1, cond the no how ever opinion should be no however opinion from the property of the color of the property followers and Proboser Thompson repeting the Colorson and Proboser Thompson repeting the Colorson and Proboser Thompson repeting the color opinion for the color opinion for

mile. And a signa, reconsess districts, model to meah pool of the verse three.

881, Mr. Wannew-Wast regard to the summeristic of cross in the country, of course, everyone knows that there is a constant interchange going on between the primes owners and the pubble sharp wars, and owners the prime owners and the pubble sharp wars, and owners and the pubble sharp wars, and owners and the pubble sharp wars, and owners are constant to the prime of constant the prime accuration for intellectual re-Noor whitever. (600, Would, you gove the local restriction; suppose owners the extraint suppose to order As con of the

power to extend myster's cord at so, of cf. the self-control steeps in his extensive a loss greet to be extended steeps in his extensive of evidence. "A non-night be lifflight life to see it does, but I creating would use impose their power than private person. If he wants to left the cond familie to him for the work that was because I have been a second to the second that the see in the life has the first that we have been a second to be the second of the hardest samples, only one hearing that such that the second to the second the seco

were continued to indecess re-monutes A stat great difficulty in spiriting grinne-page to begins with, and I say to custome above encolourable of the milk shat is the person of the state of the state of the state of the person of the state of the state of the state of tage that when the steams hours as the state of the timeworks I will be in a position to common energy name.

8800. As required the colon health, you when there that

there we require now conductors, you want has me continuousless was from an animal service said not from a british "hat you know, there is no may of belling than two scores, and saving that the danger of mirred contaminables in much greater first the british. I take it, that they were unlimit contamination.

\$665. Years was adding this in the milk to respect that if was transac substantiated \$^{-1}\$C.
\$666. As regards believedly, \$6 year dishty year would give a resistion of the believes were selected—1 do \$^{-1}\$C. The selected is the believes were selected—1 do \$^{-1}\$C. The selected is the selected in the selected is the selected in the selected in

Professor W. St. C. Systamus.-14th Pebruary, 1942.

lzen a sharp bolt out ou every one of televrateers in naumals?—Les 6200. As soon as an animal becomes a case of open tableconlorie is in a source of design to the community at large ?—I dente to.

at large-I stein so.

600. Do you thenk toberelt besills are infactive to
man Yet.

601. Cas you give us your opinion as to what you
consider the chart port of early of the tuberelt virus
into man?—The general belief is that the inhabition
method is the chart one. I resture to which what the

unto match—the general collect is that the inflammation in the many matching of the many matching in the matching of the matching of the matching in the match

my own experience too. In these key difference in the learn as add to be to rose and saimutab = 2-4. Yes. 6913. They are practically one and the same 1 = 2-4. 6914. And no publicages and differentiate between the two No. 100 per contract the borrice boddli say infective to same 1 = 1 but the borrice story or more virolent to human brings than the borrice. (816. But 8 till the borrice and the same per same to the same per same to borrice to the same per same to borrice.

herean berge shan the bornes. See Titlective to mean 1—1 that there is no dood though the titlective to mean 1—1 that there is no dood though that the field of the titlective to mean 1—1 that is not to typhoal energies, the Chairman has different to the titlective to the titlective to make the titlective to mean 1 that it is that yet makes that it would be defined to examine all possons leading mith, no fie as typhoal to examine all possons leading mith, as the asymptomic monitor.

Out 1. But suppose you had ensore to suspect that the process of the titlective to the titlective to

to exaction the presses harding the mfkl?—Yes. I true to make the presses that the mfkl?—Yes. I true to make that about to the Chairmens.

8899. And not only in the case of typheld, but also in the case of diphtherin or any other infectation of the make the make the medical officer has reason to believe

power to prevent the sale of the milk from that dairy?

— Its.

6821. For a reasonable langth of thus?—Yes I admit it is a great hardsing, but I think it is his duty to do so if he can.

to do so if he one.

682. As regards the milk that is coming from the coloid districts into the rity, do you know if marples are taken at the rations or at any other planes where

603. You do not know whether there are importors to whose duty it in to take complex at the stations?—I do not know, and the years and the ceitie of 6824. Do you know if the years and the ceitie of

M. 684. To you know it the yeaks and the outlier do shy.—I do not built down extramed outlier the obly.—I do not built down at built down at built down the control to the state of the short of the state of the short of the

6800. When you were in Carro hid you teaks any examination of goals' milk 5-Ms, not in Carro. I have non examination of goals' milk swele in Male, but I have never mude them myself.

6807. What is your opinion coparding goals' milk 5I blink it is on excellent in.

6828. In Cabo yee had an epidamae of Malin lower that was probably from gents' milk?—Yes. 2 P 2 280

Professor W. St. C. STEMMS .- 14th February, 1912.

(600) That would be one of the dangers we should run in this country's—Yes.
(600) You know the case of the importation of Mallis goals to the U. S. A., where the error all hearne affircted with Mellis fewer?—Yes, a very farmous consequence of the Consequence of St. Mr. O'Essux—Do you find most steberels in play—I do not examine yigh. I do not know, the consequence of the conseque

homes bentified.—To,

in the bentified of the production of the pr

Some our consensus Woutenorms—Non monitored some others are about here to enable the properties of suffice examinations with tolk-note behind the 488.7 Needy all of them, in foot, higher that shows its Beliest mills—Nee, 688.0 One (ity) has so much as 15 per court, of the court of the court

6808. Lincolors is may follow the chances of institum are assorbed renote of these house institum are assorbed renote of the house house because otherwise in a sity with the bar of the consecution of the control of the control of the previousne of telescopies in every sity to the world, it is theired by many publishedge that every person evidence for the control of the law many points to recommend it. On the every control of the law samp points to recommend it. 6600, In a 4th yea, which a considerably position of

milk has tolercic besilk discoverable in it, will not that city develop notneably a larger proportion of tolerceably a larger proportion of tolerceables than a city to which the milk supply is free from tubered backlift—Milk in not the only source of tolercables. Probably the greatest source in from human being to beman being. I imagine on the whole, bower, your questions should be answered in

the affermative.

(601. And yet, as a matter of fact, it does not men a fact that many more deaths occur from telescools in or such artists which you mentioned, where they have a given year, considerable properties of milk with tubered in

is, firsts to effect much as Julifavit—No. I believe that \$462. Well, herefore, the chance of twheeles being \$462. Well, herefore, the chance of twheeles being successful to busino beings through mulk assum placetic, theory there is a short, still, it is a small chance—I finite that is the general view non-aday. with the successful through the properties of the readers is mit for making. \$645. Sherilation will more on—X-ms, or qually so, \$645. Sherilation will more on—X-ms, or qually so,

of any mas.

6846, Mave you any howkinday of the infection of
milk by files or distrit—No personal larsewholge.

6846, But you believe that it is quite possible for
handle tolerache or coton hossiff to be enveryed by
first—Table is undecidedly fore. It has been proved
beyond all doubt that these things do adhore to the
deep of these, and that these likes can convey it to

duosa.

6847. Do you believe that the dust of the oftend may 6847. Do you believe that the coursey typical basells—No. I do not believe that 1 do not believe the dust of 60 steets can course typheid benilli. Typhood benill is much too unsceptible to driving to three fore; in dust typical baselli seems of the course of the

centryled by strong winds?—No. I do not behave that to all fittle?.

One will be the Whila test be objected to by the One will be the wind to respect that it should be applied.—I have been store anyone to object to it for any sensor, as a row force anyone to object to it (260, Do you believe than centres of typhoid are common to I see, very occurrence.

6851. What preportion would you think of people are one

carriers?—I have been trying to satisfy myself on that print, and I believe conceshere from four to see per cent. of people who had typhood towe must be typhodo carriers.

typhoid certices.

0452, And that may endure for years?—Yes. It has been claimed portentiarly by one of my own french that he has forout these things after six years. We had in Beldrott a cose where after sowns years we get here benefit on al least of even occasion from the same person, and there was no reason to behave the most person, and there was no reason to behave after mathematical cathod of typhoid disrage these several mathematical cathod of typhoid disrage these several mathematical cathod of the posterior disrage.

these seven years.
6353, So notestakes projections of the population
6353, May notestakes projections of the population
6364, Mins McXinna.—With regard to your belant
that the Whital tent would be understude, in it should
you think it would be imprecisable or an insuscentage
you think it would be imprecisable or an insuscentage
you think it would be imprecisable or an insuscentage
you think it would be imprecisable or an insuscentage
6600. It would be difficult to have all the people
standarderly standard.—It dutas by.

models to the construction theory and expense,
sometimes are the period to the period

689.8, So that you do not regard a sample negative result as a significant plan people of the absence—No. eventually not. The property of the property of the control of the control to a very requirementary—No. 690.1. I thank that there are probabily about the broked workers connected with darry pieces in Sellints. What there have proposed absent pieces and the control of the control of the control of the sellints. What north—No. have no materioral that it would have viewed the proposed of horses; the side of the control of the side of the control of the control of the control of the 690.1. I quite recognise that Johnson was the control of the feed of the control of the control of the control of the control of the feed of the control of the control of the control of the feed of the control of the control of the control of the control of the feed of the control of t

subported to the Wild teath—Tor here to maintained that it would have no be containable done to maintained that it would have no be contained to the teath of the

A side by their would be flavoreing convect 0,000 and 0,900 continuous every year, and I oppose ye could get an examination often for 5a. That would be yet you 47,500 high that that that many expressed other way, or even a beaser eron, in supervising the days year, or even a beaser eron, in supervising the days way, or even a beaser eron, in supervising the days that having the White loss A applied?—I knowle say that having the White loss Applied?—I knowle say

this batting the Writel term append?—I steams my so. In my opinibe it would be better to do so. 1695. Their my not arrively what I wanted to know. 1695. Their my not arrively what I wanted to know. 1699. You think it could be better speak in other ways that m is application of the test.—You said (690). In regard to partnersing, I think you seed the could be seen until for the seeding of applicage—I

think that is true.

(681) Is that options formed on your own observation, or is it the outdoor of others?—It is second hard information altogribes of others?—It is second hard information altogribes of others to is the option of practicing physicians?—Yes.

processing physicisms?—Yes.

8878. In this country?—In this town.

8878. In you know whether they had very extensive experience of a hildren who were fed on properly pattention milk?—I think that the one that T have

patercursed milk, and he spoke to me very aboutly against it.

ORTS. We have bed evidence from a possibility physician in Daktin in regard to the une of pestoroxice still. He has for a period of over four pater made extensive another than the period of the period of the period and the period of the period of the period of the state of the period of the period of the period trasling three—who were only when he first hops opinion is wholly twoemble to the use of each will. He to of opinion that it does not downly source or rathers. He has only the period of the period of the middles. He has only that the deal-chart arround pleas

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Professor W. Sr. C. Systems. -- Mak February, 1912.

or forty-use per thousand, as egainst one hundred and forty-free per thousand, the general desthirate of Dakhin-1 ass only suppressing a second-hand opinion-68th. I would like to how if you are sware what in being done in German inland, hospitals and essit, I would like to know it you the arrace what in being done in German installs bequishe and institutions for the case of mothings is such that the property of the case of mothings is such as the contract of the case of mothings in the case of the case o

think that that, together with the evidence of the murac anna ahat, together with the evidence of the Dublin witness, would make one consider very strongly use procurat vacue or community expressed optiones on this subject?—I have never heard such definite facts

to regard to this matter. 688. I wather thank that people do not give definite facts. I wanted to have your opinion, knowing your high reputstion—whether the opinion you expressed was the result of your own expension. I do not want was the recent of your own experience. I do no want to apport that anyone require posturance milk as being as good as pure milk, but owing to the difficulties of promiting pore milk it is very valuably, and I think it as a pity that optaces should be expressed without definite. Intel®—Tour addition is extremely interesting, and I thank you for it.

6879. Ser Swawarer Woodenston,-There is a good deal of summer discribes amongst children in all towns. Do you ritribute that in a large duries to

5850. Arisons from fermoutative changes?... You, and these being hastered in origin. That secons to be scientifically established within the last three years. 6861. The practical result of that to the importance of giving only fresh milk before the immeniative GSS2. Lady Evenson.-Is it not a fact that sterilise tors of paricumention makes the milk more liable to-

tion of parlicumentum mates the misk more more so contamination?—Proteorisel milk pulsefies, but it has 6883. As the analysis of the milk in Belfout was from tuberrelous, can

6884. Mr. Witson.-I would like to ask if you would

the possess injected, and the azimula are said to be remuniced agrees the posons employed.

5555. If we diminish the sermals that were chaionly droused—the openly telegrolous animals that reduce the postlem to the point at which the entrance of an minogroung, rather than of a destructive mnomine on samed by using living, powerful germs.
6886. Not deliberately.—No, but if a person winker
to give the public milk containing living germs you
are deliberately doing so.

6887. Your own figures have shown us that the average milk of Belfrat does not contain toberede germs

6568. Such sumples so you have examined in Belfast may be held to be communising agents, rather than destructive coast—That is an extraordinary view. That is a perfectly asternaling statement, Mr. Wilson. 6889. What is the prioritific support to these and the getting into the region of confroreiny about which volumes have been written. May I ask if you would

6890. Prof. METTAN.—Bonae persons might cland a larger dose than others?—Yea. The whole thang as astoondarg. I never heard such a suggestion in my you can immunise people against buberele by publice small does of posses into their helies and 6991. Mr. Wilson,-I sen tolking of the ordinary

6909. I merely wanted to bring out, if I could, the

6993. And whether, if it were possible by the double

6994. That is all I want to know?--I thought you 6600. To whom do you send your samples for exemi-nation in regard to edulieration?—To the City Analyst,

## Mr. HENRY L. Berronce exemined.

6896. The Changean .- You are an Inspector under the Food and Drags Art under the Corporation of Beliant?—I am. 6996. And are you also a Santhey Officer?-You, rir. 6897. In the distbergs of your date have you from time to time taken somples of nelk that is exposed for sale in the city?-I have,

6808. We have been told that two-thirds of the nulk supplied to Belfast comes in from distincts outside the

shipt—Yea.

\$899. Whose are the samples taken of the milkcounty into the only from the contain sees?—Series
samples are taken the local railway stations—that
is the milk that at the local railway stations—that
is the milk that at the sample that it has been
have sheet one of the or of the sample that is brought
in by milk sarts. Samples of their milk are taken in 6000. With regard to the samples taken as the stolers, in what condition have you found that mile

when taking the samples, spart altogether from the question of its adultention?—Some risk appears to to skrty keeting. Some of the malk seems clean, but most of it dirty. In that case I take samples for bacteriological examination, as well as for admiteration. 2201. Where you discover the rallk is dirly you cend sumples to the Bacter-ologist?—I do.

6000 How often have you to need samples for examination in regard to adulteration?—On an average tion. In what percentage of the cases is the units found to be adolferated?—In 1919, 8-3 per cent, were freed to be adolferated. Out of a total of five hundred and arresty five samples taken, fifty-one were found to

Have you the figures for any year provinces to eoot. Can you tell me whether last year the figures were higher "-They were higher than in the previous year. There has been a detream mane about 1901. year. There was could be corrected under the court of the country long have you concepted your present position?—I am therefore years appetited under the Proof and Drugs Aod, and eighbors years altogether under the Despendies.

2308: Has the number of sumples of schalterated be explained more or less, because there are a long number of samples laken. That is to may, where we used to take one sample from a man we now take more. A men has four own of milk and maxes them—move the unferior milk with the good milk in order to past our examination—and we adopted the system of taking samples out of each can. In one case I had only it unmounter against one man—be had clight same of milk.

or stang samples of the control of the standard samples of the control of the con

con. Mare you any infractly in sconring seeing of milt, for ensistent and ensistent and the second of the form of the first the large statement of the four point of the finelft—I ind can instance of that four pears ago, it overcames the difficulty we employing a private probability, which is desired to purchase the rathly, and hall it analysis, and it is not in to purchase the rathly, and hall it analysis, and the previous the first of the lot

son, assequent, some the present was there is the looks of the property of the property of the property of the property of the way in which the offences are dealt with under the Order of the lood outbookies. "Yes. 6018. Do you believe that the magnetization subhecities outpetted with the Public Hoeft arthricities in coffecing the conditions necessary for the production of a guern and clearly rolls: apply?"—I do

at gars and dasaby enth apply?—This are the correct of the processor of th

use the control and the contro

I this in Years was growerants wit interests on your comcess you section what the personal years are to come you are the personal years of the personal years of the personal years of the personal years are not personal years are not personal years are not to distant. He had they exist not his arm when he exist into the effect, and when you want you have the personal years are not personally the personal years are not years are not personally the personal years are not years are not

milk. 6917. It was not extintly unitro whos he said there was so milk in the cast—No. He said he had lifted the water in the He milk and he he milk hard between the water in h. He milk and he he had between the water in h. He milk and he had between the water in h. He milk and he had be water in h. He milk and he had he had he water in h. He was at the more of the other man skew supplied him, and that he would be milk and he water had he water had he water had he was the had he was to possible on the proposition of seek. The was to possible was the head of the water had been and he was the head of the

(107) for use engine or seek. Inthe was a printer, we have a fine of AD, should fire years also, and he would fine of AD, should fire years also, and he would still be a fine of the seek of the seek

supplied—I did that small the duty suspector was specified. The property of the problem my important for the property of the problem my important as their place in this consider my important as kept now as compared with the time you were transfer with the certifing condition—36. for as I hower, I duted there were morrowared a stating place, there was no property that the certified control of their was no provided in the certified control of was generally the relieving offser who was acting to supplier of the certified of the certified was provided to the certified was provided with the cer the law was very well endrosed in those slays. My quanties in that to suppose stand be appointed by the local authoristics of the distinct whatever. These should be an imposter contain time; printed-time, including the control of the control of the control of the suppose of the control of the control of the condengenter-best. I do not see how be can do he dryl, because the mentions are composed for the most great of people who our earlier in the alteriate or time. 1992. Of eccurs, that eccellion prevents cheeching, and it would control of you for the mecausity of and it would control of you for the mecausity of

part of people was over classe; in medical see income of COSC. Of course, the conflictor period cloveless, and it would deviately go to thow the necessary and it would deviately go to thow the necessary of conference of the classes of the conference of the classes of the conference of the conference

032b. Are you in heaven of horousing core-longest, or 032b. Do you tithri it would be helpful in the refereing of the provisions of the Districts and Coronical Option—I do confliction would you improve the 692r. What conditions would you take toth account the personal character of the room who is making the application, and whether or not he had been carrying to the total option of the total operational character of the room who is making the application, and whether or not he had been carrying on the total operationally in a four and simplificiences.

1993. Wood you be in brove of refusing a locuse of the same who had been concribed, so, there term is a more who had been concribed, so, there term 1993. As you can be seen to see that the see that th

percent reproducts the the content of a large than percent instance a row, which was pulling pulled in a shared distriction of the content of

nova. have here inform to yield suffi ordinategy less than he legal steaders — We do not presented a man for a signal deflectory, in fat. You do not dopen which in regarded as the legal steaders — No, because of the person proved that the milk is as it come from the magnitudes will not convict.

The convertible of the convertible of the convertible of the magnitude of the convertible of the

good marjority of sainty wise have better mits severe tools to 4 per cents, with the exceptation of the result of July, and they are only griting the same price as show 0.00s. The Custamav.—Who is the columny emreceeding price of milli in Belfaut 8—03d, a quara. This is the milli of a man who can apoply, mills showed to the column of the column of the column of the column absorbed age to overdeness of the quality of his said for the past year.

should get a certificate of the quality of his suffit the part year.

6607. Do you suggest that his con-keeper this sell the suffit that year lever them from prospectation, selfthe milk to see what percentage of fat is consiste before they need it out, and satisfy themselves that they will be simply obeying the pennelpic of the lev and save themselves from a prospectage—do you and save themselves from a prospectage—do you one knopes to the halows there are a number that choice the quotity of their mill by reciping lack the supposes and siding valuer. These are the project who some to court to give criticate to show that their projects, the year records managing over values. The project that the project that the sample that the project the project that the sample that the part of projects they have been that the sample that the part of the a sample of the sailt street or miling and compare the a sample of the sailt street or miling and compare

processions—Nee. I think I should have power to be of most offered by the process of the process of the think of the second process of the control of the order as a primarie, and I presented in the control of the process of the control of the control of the algorithm of the control of the (600, What solino did the magnetic take in this control of the control of th

(600, What selice did the magnitudes take in that can 1—There was a proofly imposed. (600, War at a submatical possity)—In the last case (600, War at a submatical possity)—In the last case (600, War at a submatical possity)—In the (600, War at a submatical possity)—In the case (600, War at a submatical pos

Yes.

Wilkl. Do you happen to know what quantity of naki the ordinary aritims moved toler into his home for this support of the household where there were there is expected in the household where there were there is not a part of the layer. Some only half a part, not know a port in the sity. Some only half a part, not know a port show directly have no regular milliman geng shoot and the market is not deep for the tax as a real. In there was if a presentation on the part of the heads of depresentation on the part of the heads of

feasibles as in the value of milk as a food for children, or is it because they are box poor to key the milk— Both course—not sufficient means and not sufficient knowledge of the value of milk. 6945. In a bruse where the wages would be 50a a work, what quantity of milk would they take in?— From two to three parts a day.

costs were supported in a country in country regulated by the encent of the meeter harmonic field. I presume you have had an opportunity of setting where the milk is kept—do they observe any corn with regard to kepting it covered or from from contamination—No.

6948. They do not seem slive to the nectually for dump solv—They generally steen the null: in the scellary in mopen remail, and there is no protection from films. In the case of conducted milk, they yest open the tim and keep it open fill it is finished. 6949. In there must continued milk used5—Yes,

6990. De they use it because they entered gain purfeet milk!—They do not seem to restise the difference between the two.

2231. The ecodemicd milk is a white fluid and colours the test—Yes,

6931. The ecodersed mile is a white fluid and colours the ten?—Yes. 6929. They do not go any desper into the ments of the mile "No. In the sommer, when they get the evect mile is becomes some, and the timed mile does not.

999. What price would thus turned milk cost whan the water as added per pint or per quart?—I think its would become more expressive than the facels milk. It weeks out slightly more than that, 6954. Does it not seem about that it should be used in that case when it is desper3—Xee, but the

used in that one when it is describ—Xes, but the working classes do not thank of that as a rule. 6955, Do you think that they feed infants on condressed milk—Secons do, but not a great many. A great number of them that get the new milk get it out of the thops, and by the time that the supply is taken from this bettern of the milk-vessel it is percitainly

great source or term that get the new mitt get it con of the thops, and by the time that the uppely is taken from the bettern of the militareast it in persionity with militare militareast proves occur to realise the difference between milit that would be really mak and milit that we have made to be abstracted by the militareast proves "No, thry do not. Of course to be abstracted by proves "No, thry do not. Of course the best of the militareast proves much the man, because their body to the roses."

between middless would be return the aribbatics between the head would be really men and and that between the really men and and that course, the better class are consistent to the policy of the pol

6067. Is that wift of a poor quality sold at the same proc as the higher quality of milk?—The same

price.

7938, And is it sold to the same class of customers?

—Not allogather the same. In the better parts of the sty they go in for the higher quotiny of milk.

6202, In residential districts would there be any trade in this poor milk?—Not see Study is in the working class destricts.

2005, The poor man gais the weest value for the

ing class districts.

2000. The power man gets the weest value for the financial supply that he takes for his financity?—That is not closed. That is very deplorable?—Yes.

2001. Lady Evenan.—I see you suggest that it tools be such an offere to send deriv sufficient the life.

9992. Lody Newton—I are you suggest that it tools it is made an offere so and they milk into the only—I do.

9993. Hence a very confeasive stell, in the callenge of the conference of the conference of the conference of the milk lesses of the presence of the milk lesses of they are to present the conference of the milk lesses of they are to present the day of the milk lesses of the milk less

and the mitt, hive you over found that to be the costs?

— I have,

— 9565. What weakl you do in a case of that hand?

— 1 have an power to take any action. That is where the
difficulty will area, I think, in the north arthority

must have his mittle seat very before any of clock in
the morning, and the Emportors would have to be
early nines to colob them.

only needs to cook teams our payment to us in Dobbis that sides, it has been suggested to us in Dobbis that sides, it has been suggested should have power to second these people. — Xw. I agree, but we have us power.

667. What is the good of your mapselson than?—I's is for the poverouse of shalleration.

the most are presented to be expected as a second of the control o

1 feet wint of man for their children?—I do not think so, of the feet of the cold in Bedtash—I do not meen stim milk, but separated milk?—I feet the feet of th

6077. Sorely that could not be separated unit. That most be skim multi-laid as separated multi.

6078. In my own creamery distinct it is seld at one pounts a guildord—We say a penux a point of its in the seld selected so there is not hard the seld in Belland.

6070. The Challender—What is the nearest creamery to be Definited—Observed for the property of the challender.

690. In three one in the city?—Yes.
690. In three one in the city?—Yes.
691. And so they sell expected mith?—Yes.
692. They sell at a pecusy a post?—Yes.
693. Lety Frenues—How about bettermile? In
these much sold in Pelfanta—Yes.
693. Do yes find that it is minimum and "Yes, more
than the contract of the city of the contract of the

2384. Do you find that it is minimented?—You, more on than the sweet multiand the sweet multiangle of the sweet multi-

980. And taker many genes are a not only as and state. No. of not know onything shout the rural of the north of the north

6000. Visible dirt?—Yes.

6001. Is that largely due to the nomptants or the
shorn not being in good condenum?—Yes, and also
because the farmers do not steam their milk.

Mr. Henny L. Buyssens,-14th February, 1919.

6992. Is some of it due to the fifthy condition of the chosen before the milk is put in?—I would say so. 1990. You mrediened also about the milk being relationated?-- Yea. 6994. What is the adolteration?—Principally addition of water or preservatives. There might be a low percentage of fat.

ov percentage of DA.

6985. Because the fit is abstracted?--We do not call that adulturation, but the statustion of fit.

6097. In the street, I presume?—In the street, in the stops, and at the rulewy stations. 6998. How so you take those samples?—When I am purchasing in the ordinary way I take them in the course of delivery. Where I are a man delivering I into three peris, and have them labelled.

given to the seller, another is sent for analysis, and the third I keep. I keep the milk in bettles. 6999. Are they always storffield?—They are clean 7000. As regards these mills shops, what do you motive from the owners?—We do not allow them to

have vegetables in the shop, or coal, or lamp oil.

TOUL What three could be sell in the shor?-Titut. Whith suspenses.

Ood, The place where the milk is kept, is it registered speculity, or eats he keep that milk in any part of the place he fibra?—He cannot keep it in a living-roam or bedirecon. He has to state where he is to the contract of the place of the

7008. Supposing there is a shop in frost and a room helind, can you go into the room behind and import

7004. You go to the shop m a double especity?-Yes. 1005. And our you take samples of milk as a sam-tacy officer in that room?—I have never seen milk tacy officer in that room?—I have never seen milk

7008, Mr. you moke of makeur it an offence to send dirty milk

7007. In the milk shops in the poorer neighbour bods, is it your business to see that sovers are kept-on the wassels—There is a milk shops Inspector, and that is has perficulter branch of duty, to look offer those shops. My principal business is to look offer

7000. You use the word "adulteration" in the sense of adding water?--You, and abstraction of fot, if the mulk is deferent in fot. 7009. Mr. O'Brows .-- In the report of milk that yo

my st adultrated, do you produce as evidence that there is a low percentage of lats or solids, or do you put it in the form, so much added water?—In the summone I wint the unit was the test the curious non-pose, and I risto that the milk was certified by the public analyst to be adulterated with to much per cent, of added water, or that it was deficient in milk into. In reddition to that I send a copy of the public analysts or iffinite to the defundant, so that he has the total percentage of the milk and all explained there. 7010. There is no danger of a farmer or supplier

desirusted as a person adding water to milk when it he that the milk is poor in quality itself? den't think so. When we get a sample of milk slightly below the stundard for the first time we never proscute. We investebly find that the wader has not been supervising the milk, and in case we find

Will. Do you find much difference in the quality of the morning and evening supply of the rallet—The evening male is richer in fast their the norming mells, but the most fetty solids are not so high as in the

7022. From what we have heard about the quality of the milk here, it is rather above the average of milk the milk bere, it is up to 4 per ceak, of faily fo that from the samples taken morning and evaning?

Both ways. We have hall milk containing over 5 7018. Some witness said that there was not us much separated milk consumed to the form?-No 7044. Is it that people have a prepulice against it, or the supply is not brought to them, or they do not recognise the feed value of it taken with network porradge? One of the witnesses and yesterday that bere was not very much estimate must yenerasy than here was not very much estimat periodic used in own now—that the townspecule do not est much of In this due to propolice, or is it that they do not know the food value of catenest porraige with somerated multi-That is really to. They don't would

7015. If there was a large supply of separated male, do you think that they would take it?—I don't think so, except they were educated up to it. 90, 53 No. They would take the condensed milk before it. 7017. You say that separated milk costs about three

bullpence o quarty—Yes.

Tolis. That is sixpence a gallen?—Yes. TOIR. This is suspence a generative of the TOIR. This is very high as for an any experience of the South goes?—I am taking of where they are retailing at through the sheeck on hard-carts.

1000. This is delivering it procedulty?—Yes, 1000. This is delivering it procedulty?—Yes, 1000. They are the procedulty?—Yes, 1000. They are they are procedulty of separated craft. at theorygons a gallon from a creamery put on the tests. I suppose that would mean about fourposes

7092. It is more because they don't know the poss belition of separated mulk that they do not use at then northing else 7—I think that is so.

7038. What would you say would be the average
pute of milk supplied here all the year round?—
shilling a milks as the average rotal troop through the

shalling a gallon as the average reass years to that co-rity. Really nome of the vendors don't get that co-7024. One would gather that you must have a more pleatiful acceptly of mile than in Dublin, because the price there is greater. With regard to trans-horse plentified atoptey of mits than in Dublin, occurse to price there is greater. With regard to trans-heric milk that you take samples of fee first, do you thus it would help you if the cannot fee the consistent of the milk was put on the Radbery Company; what I mann is, that the Radbery Company; what I power, and should be compelled to refuse any mil-ture, not as thirt beginning to refuse any milbeing put on their teains that was not in proper case, properly scaled? I should think the Ruthway Com-pany suffer a good dual from having case put on it their teates with the that see not properly fastered Do you think if the Railway Campany at the unife source were made to refuse all ours that were not properly sealed, that that would be rather a way of peoperly sealed, that that would be sather a way of getting a cleaner supply?—I don't think oo. I don't think the seeing of the cam affects it in the least. 7085. You think the milk is put in skriy?—Yes. I

don't think there is any tampering with the milk in triansi. I don't see how it could be done without thems. I have see now is count to own when persons being seen.

You'll Such come have happened where came were tempered writin—The greatest came of adulteration that happened have was in the case of a man who had his east looked, and other cans that were unlocked were oil right, and this man's milk was adulterated were all right, and uses must be have been covery time samples were taken.

TOOT. Do the Railway Companies take care in regord to train-bosse milk?—They should have nothing in the

waggon but the milk, and they should have also a T028. At present the milk is theorem out on the pint-7039. You think that there is a damper of dirt getting

1000. And it is very often left on a hot ofternoon in stew on the platform?—Yes. I think there should be think there should be a shed at the station for the character of the milk-7001. The CHRIMAS.—They don't take away 50 purchasers' care in the Billian agets—Some don't.

7000. Six Servane Woodencers......What blad of condensed milk is generally used in Belfrat?—It is pro-cipally alter milk.

1000. How is it labelled on the time?--It is simply labelled "Mashine skim milk." Tios. Do the people understred that that is sim-nilk—I den't think they do. The whole nath costs supernor, and the medium melk only theorems, and that is what they take into second—the price—lie some of the mechani skim nulk it is stated on the

Mr. Hovey L. Raysonge,-1465 February, 1912.

time. "Gours to the absence of 144, this milk is the morphish for the root of unbers," has these wood one in very usuall letters, others have not been root on them.

7033. "This milk is bought happily by the very poor continues." "The control to many per clauses, in which the milk of the control to its provinces, in which the milk of the control to its provinces, in which the milk of the control to the contr

WHY. So that in the natural consenses are named have not an improvement to their mathem?—The is as.

700c, And hanckoos they are trose dependent on the consenses of the consenses of the consenses of the consenses of the natural year.

700c, With what results—We got considerate the natural way.

700c, With what results—We got considerate.

700c, With these weight is imposed—From AS to be

1943. What fires weight be imposed?—From 82 to 58 to 18 to 1941. Here you had many cases of convictions for the in set of posserveiver?—In 1940 we had no case, but in 1942 as had fire 14 to 1940. We had no case, but in 1942 as had for the first of the

below the 3 per cent, standed of fate, because it is left types to the determined to prove that the milk was 700%. What is the highest presentage of deficiency in facilities you had?—The highest was about 00 per

Tops. What would that work out at \$\times\_{\text{-About one}}\$ poor something \$\text{off}\$. Then \$\text{off}\$ poor \$\text{off}\$ is \$\text{off}\$. When \$\text{About}\$ \$\text{off}\$ poor \$\text{off}\$ is \$\text{off}\$ in \$\text{Obs. Two gets a cover off poor could be asset of \$\text{off}\$ per could be some over \$\text{off}\$ per could be \$\text{off}\$.

on tryung mar was a man and a called to some disference of the conviction. The called the called the called the Town. The Causiness—Dou't you think that there is seen farings in objecting that stradard—don't you think that the very fast that the before Townio. Conmitted in not feel partified in nod-tricking a procession when the stendard is not lower than 2-20 per sent. acknowled to have a baid object—when it is reached 20

extendand to have a had offest—When it resolves F6 we for any processor for the first first at: it knows to the various fact if the intelligion rules 30 days for the various for the first first the large first first

of difficult to make sends more. The Popul mini-Polis, Rippone, per copily indexed to the logist minipolis, the property of the control of the popul minipolis, and the popul minipolis of popul minipolis of the popul minipolis of the popul minipolis of popul minipolis of the popul minipolis of the popul minipolis of the designificant ment the program of the pass above to designify the minipolis of the popul minipolis of the copies of the popul minipolis of the popul minipolis of the copies of the popul minipolis of the popul minipolis of the copies of the popul minipolis of the copies of the popul minipolis of the popul minipolis

believe the man's dath.

7000. I can quite undustrial, but it must also be understood that these vandates are inferented pertus.<sup>2</sup>— I would like permission to have never a samples taken when the cave are being multied.

7001. You recognize that there is a damper that you lashness the multi produces to sell milk that will mosely have been processingle—Certainly. As the low

Mill. Now mongaine that there is a danger that you was been found to be considered and the contract of the con

7004. The CRURYAN —On that principle, if a man is seezed of murbor, and goes into the box in his own delence, and anye, "If did not commit the number," he is entitled to not acquitable—Yes. 7000. It upoid seems that principle wittil had you on impossible oxed-insural.—There is no doubt about.

7000. It would seem that principle would lead you to an impossible consistent a "Thorn is no doubt about 1000. Log Yerzenne.—Do you consider that the typerducts of nelle-butter and shire mills—beads he homesty—I think the Orien should apply to them put as well. It 1900 and 1904, and up to 1908, there are not not to the consistency of the consistency of

be hereaft — I still for the Outer spouse apply to the part as well. In 1900 and 1904, and up to 1200, there were a number of control of the outer and the o

and we have a length of the form of the country. I have on the following. I have of these could be country. I have of these could be country. I have of these could be followed by the country of the following the

the cross. I would not also to believely Computer 2009. Then there would regree with your greaters are 2009. The the read of the computer of t

eras. It is durin contribute for the dues to what in your contributes the process. During well wealthen, any dark whoch congres being wealthen in by the ordin reads which congress being wealthen in give being in that the seguent stems. It shows it would, the present stems. It shows it would, the present stems. It shows it would be the stems of the process that the seguent stems. It would be, the stems of the seguent stems of the seguent stems of the seguent stems of the seguent seguents. It would be, the seguent we seguent seguents are seguents. The world by, the seguents were seguents as the seguents are seguents. The seguents are seguents as the seguents are seguents as the seguents are seguents.

Tell. Do you consider that they have done good to-I
think they everywhy have.

Tell. You think that they are doing good neek as

Editars—You
Tell. You know got no pasteurned stilk in Belliast?

Who have in a crasmay.

Tell. Xoe for such allfales; there is no amunispel
pasteeming depols—No.

TOOL You have get no passimized utilit in Demiser - TVO law (in a creasure).

TVO law have the oulk conjected see of them, see fraged them is an whether they are detend—two creasures.

TVO law (in a creasure of the c

100. The cupies of steen—I recommend sate owners to do away with them.
1000. You have no power?—We have releasly to-prove that the mile is afforded by them.
1001. You think that that kind of bard is a moure of constraints the and dire—the bersa bands get loose, and foun a lattle well due bootents to todge m?—That is

on and 2009. Would you do away with them altegether was Xes.

2003. When finding contemnated milk in these case.

where he yeed find the collamorators may at stage state, formulation in the source of the total of the core, there is the source of the total of the core is the interest of the source of the total has a proof of the 1941. Be you not think it would had a proof of the first of the source of the source of the source of the those twenty-gridge shapes made as one proof, and those twenty-gridge shapes made as one proof, the source of the

# Mr. JAMES A. JOSDAN, M.R.C.V.S., avanuand.

7076. The Cramwax.—You are a Vetenmary Inspector, to the Public Health Committee in Belfost?—I am, str. to the Public Health Committee in Belfost 2... I am, ser. 7077. And portion of your daily as to make an inspection of the count that are kept in the daily yards 2008. And you have under you, as we learned yesterday, a subsedimete, who makes an importion with

regred to the memor in which the attendants and workers at the dairy observe the rules laid down by Duries and Consteds Order regarding elegations Yes, quite so, sir. 7009, And you are matchly concerned with the con-

dition of the cown from which the milk is produced?-That is so. 7000. You have about two hundred cow-keepers in the city, and about 5,000 cows?-Yes, of course, that mibes wales. 7081. How long have you compled your present post-

7088. Have you may reason to complain of any attempt on the part of the cow-keepers to evade the healthy mock?—No, the very oppos 7086. On the whole, they are willing to carry out the matachina given to them, and maximus to co-operate with you?—Yes.

7094. Do you make periodical ensurantions of the utilities of the count. You, at, I sin very perturble about that 7083. And if you should discover a mappingous cow what action would you take?—If the owner was agree-able, I use the tuberculin test; I also take samples

of the milk for necessary, and communical 7089. Do you find switch of cores are accious to have the tuberculin test applied in order to see whether their animals react?—They don't object, as a role.

7087. They don't place any differitues in the way?— 7088. Do you change the location of the around that 1089. They have not a vacent space where you could

And if the cows do reset from the test what VOM. And it the core to react men on the sale was follows?—Under power given by the Talarevities Prevention Art I was the core, and have them straphiered said compensate the owner.

7001. On what principle—the limitation of 4102— 1002. Do you think that is a reasonable comprises iton to pay?—In the cases that came under my notice

it was, but in the case of a very valuable cow it would slengthered it was very fur compensation Soligificate if was bury introducements.

7028. You have no magazing, no ordering the shrughter of an anomal, no thristing that you are indicting a francial loss on the owner?—Mo.

7008. If you did find it measures to cocke the shrughter of a valuable own, don't you think you would shoughter of a valuable own, don't you think you would

7004s. I rather apprehend that they would not have 700G. But in the event of the Order being altered in the future, don't you think that permissive power should rent in the officer making the valuation to give the full market-value of the cor -I do. Took And don't you also think that it would lead to the owners co-operating more promptly with the local authority to severe that estimate of that pericular type chould be alternated from the head —So doubt

1007. Have you, in the course of your externation, discovered chuically toberculous udders3-I have.

7008. In many instances?-I have in four 7000. And what action did you take?—I took samples of the quilk and subjected two of the core to the taberrulin test. They were both resolves, and Professor Symmen found the milk teening with tuberale

7100. And in that case slaughter was ordered \"Yes. 7100. Mr. Winson, That was the one about which

7102. The CHARRES. Your Public Health Comsuffice never complain of the bunden imposed on them health that the surmal should be simplified? currenced me to do it.
7300. That is what I would have expected. you find the radire suspenses do you invariably have the milk subjected to besternological countriellers.

7104 And if the becterologist should confirm the diagnosis, and the starred reacts to the tubecodes to have has whole beed subjected to the inheresh-ted peradically?—Not in the city. 7306. Ooksid the city-79-0b, yes. There is one dary belonging to Mr. Grainger where the stock a subjected to the tobleviate test by the wiserner

surgeon, and every presention is taken to provide a surgeon, and every presention is taken so process a clean supply of sulfs.

7107. If that had occurred in the city I would the to have some information about it. There is no can in which the process local of the city under your continual observation has been subjected to that test

-Not the whole of the heed. 7108, We have that a good deal Ties. We have had a good deal of crisicace about the difficulties with which the Public Health Con-mittee here here confessed, owing to a very large properties of the milk which is accounted in side distintive—I have gone to gain a number of theor-110. Making a perspective unspection for your own information, but having no statistory right is common theory—Yes. In some places we have not allowed in al. all. 7111. Well I understand the technical is rather to visited the number who see willing to have their posterior assumed—the technique prompts to resum

outside inspection?—They do in the great importy of 7112, What was the general condition of the pro-mises in these outside districts?—Generally speaking, could not be worse absolutely fithy in some

cases—low cedings, crither hight nor ventilation, drive 7113. So that it would be practically impossible for the milk coming out of hyres, keps in the oce-dition which you have described, to be sleanly and

Tills. Ded the owners offer any spokery for the condition to which the animals were longer. Some of them thought they were donn greated. They do not thank they have direct come or bytes, or anything to do with Tills. And do you think if the provinces of the

and been comed out in the proper spirit it certainly could not be possible for the cows to be in that con-7116. Did you ever have an opportunity of sents these cows milked, and charrying whether or not the milkers seemed to pay any attention to the matter of

caniment?-I was not there at the time of milling. the milk clean? Quate so,
7118. Do the cuty milk museus complain that they Wills, no no ony omnerment company has any see at a databaseless in being obliged to compete with others who can send milk into his rity, and who are not hampered by the restrictions imposed on them?—

7119. Is it not a reasonable ground for complaint?-Certainly, I think it is very reasonable. 7120. Do you think that the application of the Order in the City of Bulfast has been educational in ils effect, and that those who are engaged in handling milk see now much more careful scan they were previous to the Order bung enforced?—I have not

Mr. James A. Josephy .- 14th February, 1922.

THE (Greenly realing the conflicts of the milirated in the cry one is taily subdistory)—Test, it is forly anthricosy.

THE When cry core is brought for the delivparation of the conflicts of the conflicts of the the side of sours—Lies, every four day, and crary Withresley. I think, is the day for the milds core.

THE DO you make say smoothly, but not as often as a ringal to made. I have not fine to look them, the conflicts of the conflicts of the conflicts of the THE Have you can seen as animal expended in the conflicts. The conflicts of the conflicts of the theory of the conflicts of the conflicts of the contraction of the conflicts of the contraction of the conflicts of the conliness of the con-

we do might his mode. There not time to look after the said to a single precise that would be obscured by the said to a single precise that would be obscured by the said to be obtained by the said tof the said to be obtained by the said to be obtained by the said

THE. Does that account for the fact that there has been such an absormably large number of cost slargebrood in Belback-I-would say so, and the such as the such as the such as the large l

majority come from Dublis markett but, of course, we are not extrige that those are Dublis during cours. THEO, You have discovered that a large persentage of three have been affected with tuberoubuse blescons\*—I have. THEO, and those as mile-producets would be a source of dearger in the publis health?—Tex. THEO, for they it would appear that in some period

tag cillt fått at a kontre of dernye to the petch shallth--That as so, are cert discovered that any of the 1388. Have you ever discovered that any of the 1388 and the second state of the second state of the petch of the second state of the second state of the state of the second state of the second state of the state of the second state of the large as a field state of the second state of the second state of the second state of the second state of the large as a field state of the second state of the second state at the second state of the second state of the second state at the second state of the second state of the second state at the second state of the second state of the second state at the second state of the second state of the second state at the second state of the second state of the second state at the second state of the second state of the second state at the second state of the second state of the second state at the second state of the second state of the second state at the second state of the second state of the second state at the second state of the

leepen in Belbast, ofter the militing period has cessed, to fution their owns for beeffer—That is their objects. THES, A vivey large prospection of the ment consensed in Belbast is daughtered in the shartion "—The majority of the Aberton on color gaths a small ranging of private thaughters one only ugath a small ranging of private thaughters have in the cityle—The Egy."

THE, I was refure shartled to find this there was a temperature (equilibrium) in the cityle in ways respectively to gath the special color of the color

Ice, and an increasing trade.

THE What is your opinion, as a professional man, as to the food supplied by these arizonials.—It is of a very peop quality. There are not very noticitive qualities in veal.

THE, There mounts easily brothe by desironial —

7139. These animals could hardly be designated as real, because I believe they are alongithted within a week of their hirths—About a foringth; 7140. Do they had these on mild diving that period? —That I conset tell you. I don't know, 2344. I want to know whether these was an automa-

7341. I want to kops whether there was an attempt made to improve the quality of first that their bonewould sarry \$-1 cannot tell you.

7343. Bo you see those animals provises to straights \$-1 do.

7346. Be here look on a first \$-1.00.

744. Be they task so if they had been ented and feld—They like plomy, headay others. 744. Can you give, seem on these amounts are shoughtened without many the Li would take at that the owners, peaking, earlier the many the rolls, and it being the volter dime, they cannot burn them out to greas. I do set less any other form them out to greas. I do set less any other law of the control of the control of the control of the plant of the control o

γ(4) Are they the specima of ores that are legit for the are all langing of Bellatin-Not criticity. The terminal langing of the Bellatin-Not criticity. The terminal langing forms in from the country, 718 These frames having graving leads will very five them in the cause way?—Xα. —You found of the country of the coun

lange multices<sup>2-1</sup>C are sampled if it opposed.

[14] Don't you think it is as econoccurrent reason of the property of the pro

the people to bring in the naturals. I loser shepdengiter calver in Debits at a young age, 7133. Not until they have reached a centere degree of noticety in field, but to shapithet them a recolor of a bringfle oil in a public a said of money and their 7243. Bit year led fire where the coses are bringfly that go to make up the mestage at the Belfest don't beath—They are benefit on as Debit fless and in our 1713. Do the correlators so the control partie of the country—The doubtes do not the con-longer

7.76. It is notice aluming to form that there are hatchess that time only in this coverable. Thus is well were backers in the town who deal in institute. The time is proportionally to the propose to appear to the propose to appear to the propose to appear to the proof that the proof the propose to make the proof that the proof the proof the proof that the proof the proof the proof the proof that the proof the proof the proof the proof the proof the pro

The control been a very tag control against to the control been a very tag accumplessible is an Control to the control be in director of literating con-keypers as opposed by the registration—1 would not doubt be referred to expension of multiple to the proper condition of the control to the

observed in the person making the approximent—less the broadle of the person making the approximent of the person of the person

a control, rocco or lens.

THES, And I take it you would be in favour of the extension of the Daules and Milhahopu Order to all provisions of milk, whether in the arty or contribe?—

Tes, I would brink it is possible to secure as a filterant solution of this or say other other or a filterant solution of this or say other other or

a utualize districtive who are proportionated as mode by a utualize districtive who makersty, of whom would be interested in the transportive of whom would be interested in the transportion of the transport of the work of the transportion of the work of the transportion of the transportion of the transport of the transportion of the transport o

2167. He should not be Impostant or other postinguistic principles of the Berthood—He should not would 1168. Would you probe that the should not provide should repeat or other house to the promoter trial by a support officer, controlled by the supcourse viscal by a support officer, controlled by the original appeidinger of make by the control sufficiency, the support of the support of the control surfacely to I think the original appointment should be reade by the central authority. Veterinary surgeons should be appointed for each province, so that they could innervise the work of the local inspectors, both veterinary 7109. You would, of course, he is favour of h at least one Veteriary office; setting for each Local Authority?—Yos, at least our. 7170. And all the subordinates reporting to him on quasilons which would need perfessional knowledge to deal with P—Yes.

TITL. And who would be only responsible for what work?-Quate so, sar.

The following tithle shows the pervalence of toher-

_		Number Storeto- tored	Exten- moly Affected and Cun- dramed	Passed affer Betsoval of Leest Affection	Lesions dotted in Under		
					Sub-	Glund	Ees
Gova, Hedres,		1,436	146	164 18	No records kept.		
			1000	10.			
		17,005	200	1,199	4	22	1

1980-11 395 1,990 Meders, . . 1,000

7170. Mr. Winess .- I notice that you say in this table of figures regarding the shrughter of cows, that is lestons from in the subject or owns, that is lestons from in the subject or distinguish between the substance and the gland, and both?—Yer. 7173. What distinction is there between the substance and the gland?—The taker proper and the supra-maximary gland.
T174. You state that the number of animals that 1,192, and 1,005 in the following year. What is the explanation?—That the disease is on the increase. 7175. Not a change of policy?-No. The first year not have been as correct as it should 7176 It occurred to me that you might have changed your system?-No.

7177. The same senark would apply to the table dealing with extensively dualing with extremively affected and conformed sourceds—they all increased?—Yes, from 146 in 1998 9 to 260 m 1989-10, and to 225 in \$910-11; but you notice that the number absoluted increased to \$7,680 in 1909-10. We had only 15,538 in 1909-9. 7178. You say that when you suspect an animal of tuberculous you ask the owner to allow you to apply

7179. Would you not consider it desirable to make that power compulsory in case of the Veteran Officer making the inspection?—It would be well. 7180 Would you appears of that?—Certainly, 7181. Have you say reason to suspect that serious Tibl. Have you may reason to mapped amon meason cannot of tuberculous are privately staughtered that you

sables hat I don't know of any such cases 182. You do not think it occurs to may great extent?

—No. TIBS. With regard to the number of come in the city, you say that flastuated ——Yes. TIBSL Do you know whether the flastuation has been affected by the Order?—I was the pumber flas-tual properties. turtes at certain times of the year. I do not think it has anything to do with the Order

7185. The Order has not restracted the number of sons supplying salk to Belfast within the last year No.
Ti86. With regard to the seasonal fluctuations, that nesses that the cows go out to the country on grass?-7187. Do you follow your come to the country?--

Yes.
7198. Startly speaking, you have no jurisdiction one saids?—Well, the Dury Inspector is on their track all e time. 7189, We had evidence in Doblin that the gity name that goes to the country is improved by so cast. Not so in Belhat. We have them under observation 7390. Professor METTAN.—Reforming to your statis two, Mr. Jordan, I sor that you say that a large tion, Mr. Jorean, I see that 3(0.55) man a sage menter of sainable have been extensively affected and coulemmed?—Yea.

TERL And thet in the case of others, portion of the ourcess is removed, and the coreas in then passed?—

7192. Do you think that diseased cattle in the cris-TIME. Bo you term than discussed extrem in mor cap are sent into the country to be alregatered, and brought in again in the shope of floth?—It is possible, but I do not third; it is carried on to any great extent. often do you examine them?—Personally, about these

times a year, but the Dany Inspector is over then frequently.

7194. He is a layman?—Yes.

7196. What kind of an inspection do you make?—d. THO. You exempte the strimels and the uddere?-Yes. 7197. In tubercular mentities easy to diagnose?—It is

very difficult. Tips. I suppose you come across quate a large number of lesions in the under other than what you would consider to be tuberrulous?-Very many. 7890. Is the milk taken from those milers mi-cated to bacteriological communicated in a great

udders that show chrone leatens?—Quite so.
7201. With regard to the purchase of dany cows, I think you told us that the majority of the cown were 7202. Do the darrymen go into the country them selves to purchese these cows, or do they purches them through dealers?—The majority sureless 7200. They don't go into the country themselves and

7204 In these any sunspendie difficulty in perchas-

7935. Do you think that it is practicable?-It is 7206. Well, the naimals themselves would have to maked that perhaps there cover about the tested before being sent to the market. I don't think it would be practicable to carry out the test in the market. 7207. Don't you think that the oow that came up with a certificate that it has passed the test, that that certificate might not refer to it at all?—That is I musuaderatood your question.

1208. As regards the colver that are killed, see they killed for human communities?—Hvery one of them. 7209. In there may tasks in the bades1-They don't Tild. You don't think it is possible that the calvet are killed for that purpose?—No. They are killed for

7211. You do not think that there is much nousely ment in that call final 1—No. 7212. Ludy Eveneur, - Do you think that the retailer

of adulterated or duty malk should be held responsible on the first instance, and that he should recover of the little seame, but that he means recover damages from the present who supplied him with the milk? That was put before us in Publin—that the retular should be libbe in the first case, and that he should recover domages from the person who sell have

Mr. Junes A. Joenney.-14th February, 1912.

the make-The retailer should see what he was buyit. He should be held responsible, and let him pro-ceed against the party he bought it from. 7215. Do you consider that all by products of mile -batto, better mik, slom mik and separated milk-should once under the same Order as new milks-

2B4, Mr. O'Baux.-Are there many mitch cown old in the market?—Yes, great numbers of them. are danyment-Yee.

7216, They buy as the market or Belinet's-Yee.

7217, Is there may penetice of buys and girls going
mbo the scaled with all sorts of vessels milliong the

mto the analost with all sorts of research million; the convert—Lee, that is the precious without being million for twenty-Lee, haven, and then millied into any nort of darty vessel at the method?—Yee, and we can sentedly keep linear people ordinate the obstaction. TER, What nort of permanen how you to prevent they provide on the markets—We have no special pre-

7220 Would it not be advisable to have some sort to permane?—Lor. 7221. The people take away thus milk which is more or less possessors, and in duty vassals?-Yes. 7222. So far, you have no regulation to deal with that

"2222. So far, you have no regulations to shad with that produce?"—No. 7228. Are there yield long in the town at all?"—Yes. 7228. Let we you may difficultly in longing them out of the united place is not prove distance from the layers, you cannot prevent people longing them in the layers, you cannot prevent people longing them in the layers, you cannot prevent people longing them in the layers, you cannot prevent people longing them in the layers, and is the layers of the l

trest. Because you have the offensive smalls, and toy would contaminate the milk?—That is so. This, Is there much tokercolous amongst pigs?—

My experience as that there is not ration generation, therefore, amongst pays.

1927. Frederies Mirran.—In any form?—It is common in the cellulary lossified form.

1928. Mr. O'BRIN.—Is it supposed to be in any way consignes to other naminals.—Turburendoes in page 2029. Yes.—Human beings could be affected by it. and cowe too.

7230 Are these the same sort of regulations passed

Own? Quite the same regulations.
7231. They take samples of the flesh?—The page not inspected—the pork is inspected in our market when it is brought in for sale. It is impossible to respect every earness.

7232. If it is found tuberculous it is condemned?—

Yes.

5200. Do you think that the cows in whose mills tubench backlit have been freed hove inventibly tuber-culture of the video to—Not at all.

2254, 11 does not measurely follow?—No. Yes ovald have them in very subsected stage of tuber-cubes, and yet have the olders apparently free.

Mr. James Green, Mr.c.v.s., exampled. 7249. The CRAMMAN,-You are a Voluntary Sur-

7250. And you have an appointment under the Hely-wood Urban Ownell as Inspector?—Ten. 7351. And you see also a member of the Belfast Corporation?—I can. Officeronics—a un.

7252. We have hend a great dual about the condi-tions under which the milk is produced in the city area, and we would like to hear about the method of

controlling the production of mile certain the outcombaining the presence of min cofficer on cover. Is any malk from your district sent into the city of Belfasty—No. It is kept embarrely for the inhabi-tions. They are small cow-keepen, and they distribute their own milk.

7288. With regard to the quantity produced, is there any shortings?—Well, I comed my that there is any shortings. So for ms I know, in Hollymond we have a sufficient supply. You soo, it is not a werking-class distinct, and the people requiring milit cen affect to pay for it, and got planty of it.

7236. But on shoughter, do you not always find that there are some leavers—Ou, no; perdecily locality. 7236. Professor MEYEAN.—What we would like to know is 3, m year opinion, an animal this has tober-ordens without hiving a tuberestrue under would give tuberels in the milk?—Yea. takershi in the milkt-lin.

Y297. Mr. O'Benot, - What I wasted to know was,
though the water might be chacketely cound and the

cow showing telecratous in some other way, whether on simplific of the szumale they did not find always that the tubercolous was to be found in the udder itself, if the tubercie besalt is coming through the hard, of the tuberole besult is coming through me-mile?—That is not so. 7238. Sir Striware Woodsmouth.—Are goods kept in Selfast to nor extent?-Those are some your purpows-No. I 7250. Do they come within have seen several of them in Belfast.

7240. Mr. Witsers,-About the system of homning T340. Mr. Winsey.—About the system or morning, we had it suggested in Dublin that the pressure should also be liseased in addition to the cow-keeper?—Yas. T341. That would involve a double system of liseaseing the man and the promises?-I very respectator, clear-icolong man, and jet be would be selling very direct milk, and have his premises in a very flishy condition. a very many condition.

TMC You would not think it desirable that there
should be a double system of becausing like that?—I
don't know how to get out of the difficulty, but I

to estitle them to the man. 7243. Those licenses would have, of course, to be

7364. But the chief point, you think, in licensing would be that the houses could be cancelled in the event of the man mulchaveng himself?—Yes. 7245, Lady Evgnano, If you find a cow with tuber-

7236. The CHARGEAN, In these any other point to high you would wish to direct our attention, Mr. which you would wish to direct our attention, Mr. Serdan Nothing further these that the Commission might wish some of our layous in the city, and also it would be more if they could bee the permission of Mr. Willice on Mr. Grounger, where I was a few day age, and I was very rough struck with the clear direct the could be could be conditioned the conditions of the article.

7247. I keps it may be possible for the Commission to pay a visit to those deary yards. It would be very interesting to the Commission, and instructive as

Mr. Wmsox.-Would you take no to one of the bad vards?-We would take you wherever you would lake

7268. Professor Merrant.—Do you know where the worst costs not?—This is a very hard quarties. I would take you to any district in the city. The Cuspens,-Thenk you, Mr. Jordan, very much

7864. But there is some working-aloss 7225. Is it due to a shortage of money or to want of approcession of the value of milk as a food?-Want

of appreciation, heaveness they buy other things, such as porter and condensed milk, I understand, which second his sufficient to get them a good milk supply if they understood what they were done. 7156. So that your opinion is that the people do not recognise the value of milk as a food, especially for infures and prowing children?—Yes, I hold that

7837. Do you make an inspection of the cows which supply milk in the district in which you held your appointment?—Yes. I make an inspection of the cove and the cow-beans both, penodically, about Mr. Janus Gamos.—14th Pelerary, 1912. 1208 What has your expersions

hardware and the proper of the control properties and the control properties are control properties and the control properties are control properties. The control properties are control properties. It is not to the control properties of the control properties of the control properties. It is not to the control properties of the control properties are control properties. They were historical due to control properties of these control properties are controlled to the control properties. They were historical conditionally controlled to the control properties and simplified for bed.

and strughtered for best.

2560. Were they preciselly dried off at the time, and had censed to be milk suppliers to the district?—Yes.

2501. And in the other two crases?—I gut them down as simple maintan or some other before them.

down or simple masting or some other industries.

7200. And there was no re-action?—Not in these cases.

cases.

7258. Did the owners offer may objection to the systematics of the teherechia trist—No, they were very reasonable shoet it, indeed, now, for conjustin with 2244. And you have no count for conjustin with 2244. And you have no count for conjustin with 2244. And you have no count for each edge with you is carrying not the provisions of the Ocice?—They seem to work with me very well. Whether it is that they do not know their parcers, I

whether it is used in Vay at our room been process, it was a construction of the const

a very simple wey of reinging deliriprocuts to a some of their responsibility.

1998. And you would be an invour of the observators of the opphisms being taken into consideration where he applied for a historie, and giving the Local Antiboration the option of refusing it they thought the applicant uncombate?—Undexibedly.

cont unsufficite. Undershedly.

240. Where see the cone bought that supply the berds that yaid male for your district?—Most of ibem come from the West of Irebaid, and the Countiese of Carna and Fernmengh.

Carrier and returnings.

7270. Are they longist direct or through dealers?—
The dealers buy them from the fromers of the district,
and fook them to the Beffort market, where they
sall them to the darrymen.

7271. And your con-incorper rearnet their broks from
that source?—Los.

7293. Van hour, formed come continue to the

7272. You have formed some opinion as to the causes that have bed to the difficulty of procuring milk?—Tyte,
2273. Do you think that the present system of breeding is in some same resumeship?—You I have

breeding, it is some season and primary system on briefling, it is some season with the briefling of the shift that for some years—that the briefling of the especially amongst farmers second here in the Countre, of Austrian of Davan, has been due to the fact that the Sheetborn full has been used for a number of years. I had that the shortage of melli among that type of con- is controlly due to the breaking. 2244. And this influence of this built—Yes.

275, Are the boils you speak of pressions boils under the Department of Agravitors—Most of here are the Department of Agravitors—Most of the contractive and the second of the Department of the Department of the United States of the Department is using those bells without fixeving earlying of the peavons militing records of the dans, has a distinct inference on obtain subjust light of that class.

7276. You contend that when a Government Reportment sets an example of predicing these currons, it gives a land to other people "-Yes.

7227. Do you believe that the keeping of null

7277. Do you behave that the keeping of mill records would iced to the climination of light-milliong cows from herdat—Les. The keeping of the records is absolutely necessary.

2379. Are milk records kept at all generally in your district?—Oddy by a very lew. The Department of Agriculture has instituted a system of records for ingistered dairy core. I know a number of people who are kepting search for that purpose, this indices tunnelly thore are few chiryman, say, one or leve, who are kepting records.

are account records.

1879. Do you believe that the introduction of this record-account will be of contioned, and that its influence is likely to extend outside the accept of the

scheme, with which in death—Veg. I falling you as that. I believe they go carrow have any rear along, then without the mile recover, and that you credit me have easily with you see doing mourisely written have easily with you see doing mourisely written have present the recent and the contract which you construct the present with the orbits which you construct make recover were loyd—No., it could not be properly give on web. 1723. Not milliprovily or semiliply—Then is no., who were loyd—No., it could not be provided to the less is position to show the reserved of the district less in a position to show the reserved of the district.

be in a position to those the rescribe of the disms of three solies to the productor.

1263. Yet are sorten that the Topotational Issu a 1263. Yet are sorten that the Topotational Issu a 1263. The yet William is a "Formation of the dam' proving as the right directions—I think the dam' proving as the right directions—I think the dam' of horn has been done right only the part of the What the Ulric Mill Deprevenant Association would like result to but the Department of Asponsations the result to that the Department of Asponsations that the province of the Province of the State of the topotation of the Department of the State of the topotation of the Department of the State of the State of the topotation of the State of the Sta

Jose, Liny see not yet evaluation motor the selectors 7200. At all of events, yet our suitable that the putmple of the scheme is on a solid Benchelon Y-ven, yet would with Y-Ven. I am selected the soliton is a good me, and Birdy to the good.

The selection is a solid property of the selection of the people, say in County Decor, are co-operation. It is the Department in developing that solitone 1—I leave the the county of the selection of the selection of the people of a few who are looking mill sevents for the purpose of a few who are looking mill sevents for the purpose of

griding sect core represents who are topics in any three dairy built, but I razmot give definite figures.

7288. I only nented to know whether it was popular, and fiftally to take on with the farmers whothave the opportunity of developing the scheme of they so dezero.

—I know of some who gave it up because of the rought of kereiger months.

trouble of keeping records.

1289. I understand. There is always a difficulty in gating people to do it constitutily. They do it space modifiedly, and may it is not weeth the trouble, and even in the North of Belland, I surpose, that type is to be found?—Yes, as well as in the Smith.

Tion. Of cosmic, you are strongly convinced that there should be a general application of the Dairne and Milk Sheps Order by all the Local Autherlites?— Yes.

Tion. It is the Order brung cutorood by the Holywood Countil—The Holywood Countil do their duty very well, indeed.

was, increas.

7892. Are year opposited under the Order?—I have full control. I have an Imposite under mr. I have that control of him and the Order on Helywood.

The control of him and the Order on Helywood.

1909. The has adjoining Antionnities you the Order 1909. The has adjoining Antionnities you in Vestimage. The control is not the Order 1909. The Order of the Or

these desirates to any considerable extent?—I should say that make the supply to Bellium street from those two many of the supply to Bellium street from those two many of the supply to Bellium gives by the Bellium Public Health, Natherity world correlated that when that the Order world correlated the view that the Order supply the efficiently enforced there?—There is uncharge, a thin distant, testing about 100 per from the contract of the con

efficiently endeced there?—There is another, a third district, feether afield where the milk comes from. 7296, And the trustle comes from that quastler?—Meetly. There are some people in the two districts maximized that it is not easy to manage. 7297. Do you not think, as regards the conference:

the grownesses of the byler, that is collected on the consistence of the byler, that is collected on the consistence of the consistence of the consistence of the consistence of the collected of the consistence of the collected of the collected

7388. Mr. Wilson-Wilso year squeeze office in ingeginery information—No, in a No. Rento Offices. 1780. The Comments—Vin hopper be live in a direction of the comments—Vin hopper be live in a direction of the comments—Vin hopper be live in a direction of the comments—Vin hopper be lived by the comments of the comments

Council 7001, Sencessly speeking, do you see remidenable officially in securing notifiers and regular endocessary of the type, such recognition and regular endocessary of the type shall be replace of which would be interested in the tools "New York Council Williams and the processary of the securing the

contraded from some Control Authority rother than by the Local Authority—Their is set in some one officer in 2000. Woodly spec be satisfied with leaving one officer or each protection delimits, and leaving a by Lampeter of the wester—Well, I about any that is would be excessively to have a by Emperolet, but I should not that it should be under the control of the professional of the leaving their control of the professional Third You Kink that is by Emperolet mough do a

The trief was a large to the state of the st

the state of the second cost.

THOS, World is his possible to have a professional road selfect of THOS. World is his possible to have a professional road selfect of THOS. World is not all the direct and the number of cost self-cost and the number of the self-cost of the self-co

1900. Would you apply the canditions of the Order to features who do not sell sufficient would you make them explore to susception. A vice make them explore to susception. A vice would not give them the privilege that such that we would not be presented from anyung his own abilities by girtly them topics on the form to girtly them topics to be presented from anyung his own abilities by girtly them topics to be presented from anyung his own abilities by girtly them topics to be presented.

TROS. Mr. Witness —Worlds that ented a very large recesses in the worlds—Lee, and it would cotall a large increase in septemes undoubledly.

TROS. Con you form any seitments of loov troubly—Probably it would merease it by two-thirds or three-footbus. Beauth arm I am mure it would increase its by

TRUO. The CRAINSON.—Do you think that the inter-TRUO. The CRAINSON.—Do you think that the intertor that the control of the control that the base lead on improvement to control you have been all I have been described. We have improved our held at the computed do not reliable you will be the Aberdoon. TRUO. You were dealing with Shorthorns. Would be safe physician roles with regard to the Aberdoon.

the force organization was write Organs as the Advances. He produced the control of the control

our decrees.

7016. What is the method to begin with?—The
method is simply that —Too currains the cover offercells; best them with intercedin, and you realise the
reaction; that is, you gut them may be above by them.

selves, and saith harm on large as they have milk, and stortline the milk. You are preparing them in the meantains for the britcher, and as soon as they are mady for the includes (ley one which all. The selves stortline and the property of the selves associated stortline and large supervised, as that a most who goes in the this polery and has no convented before the paraset them rich the world, has a charco of hosping (211). It would need a conjugate the parameter of 2111. It would need a conjugate the amount of

the disaster out of this bend.

2131. It would need a considerable assessed of
expense to currer that all bines conditions were
rightly adhered tot—You could not do it unders the
owner was willing to assist you. If the owner were
writing to a operate, I think the Buler should supply
the velorimery inspection and the tuberculin.

2146. You think they should mant to that cutout?—

Yes, The yes that has the suit of reacting own in the topic of the period to suit for the topic bother—Yes, I had then it of the control of the period to the period of the period of the period to th

Otto.

Tills. That lissfu up to mother question. Do you will be a possible of the control of the

tion in the absorpting eat of disease—It reads on surgary the own integers very invest, and make the major work of the trospector many pleasants, and 2018. And you would be in fever of wribingwing of that Benthelman, and giving the officer appointed disease, the surgary rower to death in the desiry would be resourced to the control of the control of

the inner power to do what he thought which the resumry olds and parts—No, and I do not think any officer would overstep his duty, or 2021. I do not suggest that he would. He probably not be shown to be discharge of him poston of his would go show the discharge of him poston of his would go show the discharge of him poston of his tild by with more oversign of he know that he would say be inkey by rubus a formound issue on an orderigabal in

July with nore correge II als know that we was not be lawly to relate a formed in on a relativish at the same of the control o

from the test encappear, and star laws a suffixed arter, as you as here valued the suffixed arters, when the suffixed arters of the suffixed arters, that of the Department of Agrontines 7-4, that is, which are the suffixed arter of the suffixed arter of all a militar street, it has them tend from some of a militar street, it has then tend from some of the suffixed arter of the suffixed arter of the score Burchen milks lind to be more day a close aryonic Burchen milks lind to be more day as the score in the suffixed arter of the suffixed are suffixed arter of the suffixed are the suffixed and the future him to make a favoring whether his score limit of the suffixed are the suffixed are some limit of the suffixed are the suffixed are some limit of principles as to the quantity of suffixed some limit of the suffixed are suffixed as the suffixed some limit of principles as to the quantity of suffixed some limit of the suffixed are suffixed as the suffixed some limit of the suffixed are suffixed as the suffixed are suffixed as the suffixed are suffixed as the suffixed are suffixed some limit of the suffixed are suffixed as the suffi

the orderenation, and it is used a good after it making the built receiver try to procure cover that were of a good militim stream—therefore cover. In this way you could get conformation, which would be good causely for Seef, and a steam that would be good causely for Seef, and a steam that would be good to militage qualities of the buffers, at all creats. 7325.1 am inclined to before that its essensimate

TOD. Because when the majority of Shorthers cow are subjected to the militing test, their postion of the subjected to the militing test, their pochains would hardly corn before the politic with reliantion of the subject of the bear. But the subject of the subject of the subject of the bear. a the reliance of the subject of the s Mr. James Gross.-14th February, 2012. 2327, Lady Evensen,-You said that it would be

7327. Lody pressured to the foreground gave a great for the appliestion of the teberguin test?—Xes.
7328. £5,000 is set unde yearly in Donnack for that purpose, and they also give prices for book that are free from behaves leady -- I know they did something 1989, Do you consider that all by-products of the

milk-butter, butter malk, skim milk, and separated milk-should come under the same regulations as new milk?-Yes, they should all come under the Order-7830. Do you consider that the retailer of milk in the town should be held responsible for the milk sent in to him from the country, and that he should recover damages from the person who explied him?—Yes.

If the retailer is responsible to us in the city, the
man who cells the nells should be made responsible to the rotailer.

e rotalier. 7334. In the first instance, at has been suggested Table to the Public that the retailer should be made liable to the who supplied him for damager 7332. And you also consider that a whole-time officer would be advisable?—Yes; you would get the Order 7333. Mr. Wraces,-You told us of the Bang method. Would you tell us about the result of it in actual app

cation in your own experience?—Well, you see, I' not pretend that I applied the Beng method in Hol not probed fast I appears me mang mehans as associated wood. I their a fittle a fittle experiment, and it was very salisfactory—that is, the owners of the cows sectors amount to home whether their cows re-acted or not. Of course, they did not follow the experiment up—we had no power to do onlying of the land. They got rid of the re-setees, but how they got rid of them I do 7334. The CHARRISH, Probably next them into Bel-

fast?—I may tell you this, the Urian Council did not encourage me in the way of finances. It has not been ecutioned—the testing of the herds 7886. Mr. Witness .- What experience have you vece. Mr. Wilson.—What experience have you got of mile records—do you know of any setual results?—

of mile recombined year mile of any scenar instance, and inverse personal experience of it whatever. I know of one or two people who kept mile seconds, but all of them, with the acceptant of Lady Dundesth, who keeps a record of both her cown and goats, have given up. I have no personal knowledge of the matter mynelf. 7886. At the seems time you would look upon it so

the executed without which the dairy stock could not be developed?-Yes. to arvaropan — res.

1397. And more particularly in view of the problem
of winter dalering? — Yes.

7388. When the yield averages only four hundred gallone in the year, winter durying is an economic irrepositivity?—Yes. 7339. Whereas in onse the cow gives an average of over six hundred gallons in the year it becomes more of a paying occount—I do not know how you could make winter durying pay unless you can have an average of over six hundred gallons

7340. It is the oueton here that people do not breed from their own cown?-They do not. This there own cowsr—risey so not.

This had consequently they have no interest in the matter of milk records?—No. I know a few people who keep over an extra good cow.

7342. That tendency would be encouraged by the hesping of records?—Yes. There is one individual I know who has kept milk records, and knew what cows to keep over, 7343. You think that would be a wholesome policy to apply on a larger scale?—Yes.

7844. It has been suggested by that the Department would do well to by more strong on the cow side of their plan-pay a man a premium on the cose side of slick plan-pay a man a permittue to keep a high-chose over in his hord, and hered freen her and keep her over t-That might be dane is, a few cases, but you know the history of Dennieck in this matter. Ferty or fifty years ago the cover of Dennieck were as poor as any in Barops, sod klay have now the best in Europs by, I undervisual, Importing builts

2345. Would you be in favour of an attempt divide the country into heef and will arrest Ver

Our County Committees have not got educated up to it yet, and the Department have not given a lead in the matter. As the Chaleman said, they have not got

audioscut time, but so soon as they have, I tust they will maint that one Committees around Ulster hand from a sufficing strain.
That, The Charmans,—Mr. Greege is largely in fewore of a scheme in existence at the present time which the Department is developing but I out see a further develop-ment to the scheme that Mr. Georgi indicates that would

with the brills at the sele?—Quote to, casetly.

7347. That is not county on the lines of the Deput-ment's scheme, but that would be a farther development of the same size, and it would go to produce practicel results concurrently with the scheme at me, sont in existence?-It would help to hesten metters. 7348, Prof. Merrays.-- How many open are there is year Urben District?—Under sixty.

7849 Do you find any difficulty in getting the regulations carried out?—In two or three cases we had

men who own these or four or five cows. Three of 7830, Mr. Witson,-Has that reduced the quantum of milk available?—I do not think so. Mr. Grapage of milk available?—I do not shink as. Mr. Granger on supply the defension, Mr. ded not meant on are buildings, eithough some of the hubblings were very ship both you want to make the properties force, and lightings. Those were not large important force, and lightings. Those were not large important force, and lightings. Those were not large important force and the large and I may say that in lave got it. I think that before the peacing of the force you could goe have found during larges then Defor you could not have found dirier byces than a few of those in Belywood.

7161. Prof. METERN.—What is your method of suspen-

examine the relace. I make inquiries, and then, of course, take notes as to the general condition of the animals and the clearliness of the large. 7852. Do vou think that the Inspection of the viterinary inspectors of the local authorities is furly uniform?—I think so. 7455. Do wo think the requirements of the Rival

District Council are uniform?—I am not so sure shoul-Missis. You think some are lander than others on the dailymout?—Les.

7254. Do you find any differenty in conving out the simple hygienio robot?—Toe, especially chemitical in the converse of the converse of

7856. They look on it as unnconsury?-Yes, 1886. They seem on to as unmesseary:

In Helywood, by potting our man to watch them obsetly, and by doing judianus detective week makes them into cleanizess. If you shows them into cleanizess. If you shows them into cleanizes were appropriately to be compared to the control of the control o 1937. Do the workers themselves object to westing

hands?-Yes. 7338. Do non put them into owerslis?-No. you, we have a lot of small men in Holywood We do not trouble about overalls or anything of the but I find in my experience in the city and the country districts that the milkers of cowe, especially the rose—the ventors are more clearly—any territy divty. Sometimes you will see them milling with quite dirty hands. In many cause if have seen the manure desping from the hands into the mill below. 7500. You have power to stop that?—Yes.
7500. Harv you put that power into force?—I have seen the clear to the first halo we had a first halo we have had a first halo we had a first halo

not had to do it in Helywood. At least the rean under me has not reported anything like that. 7361. About your Bang experiment, it was not corried out in the entirety?—No. TEER. It consisted of periodical applications of toheroslin and the fottening off of the reactors? Fifty for out of fifty-mine cows were injected. 7363. It was not one partirular owner that took up the method?-No.

1956. The experiments that you carried out were useless peactically as an example of the Barg method?

1968. Of course, you find that tuberculin has a great diagnostso power?—Yes, it is of great assestance is forming an outsion in tabler cases, 1306. What is your experience of the moldense of teherocices in cattle; do you think that the averages that we are getting here are rather below or above

the general average?-I should say, from my experience of about twenty-five years or so, that tuberculous in suits is rather on the increase. I find that where you have a well-bred dairy cow that is, a cow of the Shorthorn type—when they get old these azimals almost populably develop tenercolosis. In Belfast they do normanaey carming interrenous. In melitari they on not pet such a charme of developing 1t, but they do in any of the districts where they are kept over. I have my our man a head that I wasted of that lend where the cows have been kept over, and 75 per cent- of them

reacted.

THE Cove kept for several years in a byte show a higher processing of telescolosis. Year Year, Yea 2809. What is the class of the population in your district at Holywood?-It is a remdestral district of

distinct at nonywood?—It is a removated district of the middle class. It is only about an unles from Beltist. There is a population instituted to a small town who earry out the work of the town itself, and go up and down to Bellian daily.
1810. It is not what you would call a poor district?—
No, I said the distrymen were poor, but the district is

not poor 1971. The supply of mile to this distinct is neces-surily a good deal from the outside, and is brought in by train S—No. It comes from the rural district which

adjours it to some extent.

inspector once a month.

Berral Dietrick

Mr. Javes Genno,-14th February, 1913. 2372. Have you power to go mio that district too?-No.
TOTO, But you do?-No. We have a very good vetermany officer in charge, and we depend on him.

1974. The Medical Officer of Health, finding the people under his care infected by toberculous or have not much

TRUE. In the ordinary course he would, and slee the perpector of the Rural District?—Yes. 7276, Miss McNezza.-Some waterwes have made comments on the want of a recognised standard of agrigation on the wate of a recognised standard of qualifications for my respectors. Have you any idea of what should be recognised as qualifying a man for the position of an impector of during —I should say, the first place, that the man should know something

7377. A man who had been engaged in dairy work?the Boral Sanitury Institute, all the better; but above would have the ram a practical man about darron-a man who had a knowledge of cuttle, and 7378: You would not think that the appointment of a man without any provious expenses of during dury work would be advirable?—I would say that. The Customan,-Thouk you, Mr. Gregg, for your evidence; we are much obliged to you.

#### Mr. W. Houser Morron earmored

7398. Do you keep the cows for a second milking eriod?—Only the exceptional milkers. 7280. Are you in the city area?-No, I am in the 7380. It so not part of your system to keep them. J384. Do wo send milk mto the cuty?-Yes, rato over from one year to accessor—no.

7400 And you thrule is a concernio, from the trade
point of waw, to key in fresh milkers and sell them
when they are blassical—Tex.

7401. How long have you been in the wholesale
trade—Texaty years, and I am in the relial trade trude — reastey years.

7402. Do you think there is any difference in the
yield of one now as compared with twenty years ago?

—It was easier to buy good dairy cown in Belliush

—It was easier to buy good dairy cown in Belliush market then then it is to-day.

7400. You mean cover that would yield a road supply of milk?—Xes.

7404. So your experience would go to show that
there is a depreciation in the yield of milk from cose no a whole "-Yeams a whole?"—rea.

7405. Do you agree with Mr. Gregg no to the
meensaty of developing a breed of cown that would be
more graceous in their yield of mile?—I do. 7406. Do you think that the introduction of what I might describe as the "mealy "shorthern has a perjudicial effect on the sight"—Tes.
7407. And the Aberdeen August?—Yes.
7408. In a greater degree?—Yes.

7479. Do you fatten your cown before selling?-I do We keep them until they reach such a degree of fresh as that they will probably realize what they

7410. What period do you heep them for?-Twelve mostles, and some may be kept into the second year. 7411. Some will mulk for a longer period than others? 7619. And will not fetten so rapidly as others?-That

7412. Have you say difficulty in enforcing requirements laid down in the Daynes and Milkebone 7414. In the absence of expervision, do you think it would be possible to outcome these regulations? In

7435. There are some workers and you could not depend on if you were not there yourself, or some dependy, to see that they were exceed in their habits?— 7416. It is insisted upon by your local authority that the workers should be provided with the mests of weeking their hands?—Yes.

# 7379. The Charman-You are encured in the dairy

THE Has the price of milk decreased or desimited in recent years!—It has either increased, owing to the in recent years?—It use either increased, owing so see high price of feeding staffs.

Total. What is the regular classified price in winter and summer?—I/. a gallon in terminer and 1/2 a gallon Tille. The district that you supply is not a poor ments are unserned until your supply in 100 % poor interests—No. 7003. Do you find this the readents in distincts ranks as you eaply see leem on the print they pay for the onlike—I've, they like to got it sheap 7000. What I would like to like up in this—do they voids. What I would not to show a man-to-realise the importance of getting a pure and obsaily supply?—They seem to reagend the imputance of realis. These residented districts that we supply are mill. These residences catarets one we supply occupied by beamers may, who wadrestand six white of mills. There are, of occurs, exceptions.

Ti85. Are you in the Bellius Beral Districts—No, in the Newbornaris. We are only one mile estudy the 7888. What supervision have you got in the New-towness district?—We have a sub-ensitery officer and a veterinary inspector. 7889. Do they pay regular visits to the dairy?-The assilter officer does frequently, and the veterorary

7000. Has he ever condemned any animal in your 7891. Does he make a careful evacuinshion of the compt.—Yes, he examines them, and examines their utilities very carefully. 7922. So that you suffer no late from animals con-demned to shoughter \*-No. He has condemned some

7383. Do you keep a large hard?-From thurty to 7094. Where do you buy these?-- In Belfust market, 7005. Inveriably?-That is the main source of my copply. I may buy one from a neighbour.

78%. These come are gathered by dealers in various 2000. Three come are generate of cartiers of values parts of Ulater and Commission.—I suppose ball of them would be coming out of Commission. That seems to be the great source of our supply. THE Do you keep any mile records?—No. I wrigh the bulk, and we wrigh the milit of separate cores. As the militing is going on I would would it.

7427. Do you complain of the conditions laid down in this Order, and its referenced on you, as being in any degree exacting with regard to the keeping of court - No. I think it is for the people's advantage. and the farmers are becoming to look on it in the 7418. They enter into the spirit of it, and consider that it is the most recomme method of energing on their trade?—Yes.

tion as a second of the conference of the Order has been a 1911. So that the enforcement of the Order has been a 1901 The man who wanted to carry on his tende concerningly and intelligently should put his house concerningly and intelligently should put his house. in order if there were no regulations in existence?-7421. And they have no greewage under 147-No. I

think one inspector, when he comes up for examina-tion, will tell you the same thing. tice, will tell you the same thing.
7432. Is there a working-clear population in your
neighbourhood?—There are some. There are a few
neighbourhood?—There are a few people of that labourers end gardcorn, and a few people of that ctass.

7425. Do they secure a reasonable supply of milk t—
Better than what the poor in the sizes of Belfast
would have.

7424. Do you sell say milk at all on the farm?-7455 De you encourage the trade, or have you no demand?-We would not have people coming about the beens. 7425. I meso. can the people in the immediate

neighbourhood—the working-class people—procure milk if they have the money?—Thay even get it from the 7427. Do you supply your own labourers?-Yes, veryone that works for a feether is supplied by him. 7439. That is the custom in the district?—Yes, 7439. Are you familiar with the dany scheme which is being run by the Department of Agriculture for the

so only ran my the Department of Agreement for the production of bulls of a milking stream?—I have some knowledge of it. 2480. Are you co-operating in any way?—Not very much in our distract. 2481. Have some people applied to have their cows inspected, and undertelen to keep records?-Yes,

Tall. Do you think that the Department's acheme is to the right direction?—I do.
7533. What do you consider is the average yield of cows brught an yours are in the public market simply on their appearance? I can only give you the average of a friend of mine who is in the trule, million forty cows. He took a record of his cows, and hought good cows, and showed considerable telegraphy in business tows, and showed considerable judgment in buyin them, and they averaged up to almost 800 gallons. 7484. They were good cower-Yas. He buyin go-cows, and he news most transit to these Te-

cova, and be pays good prices for them. These average from 700 to 800 gallone, 7495. Forty cover3-Yes. 7495. That would be for a period of twelve months?

1480. That would see us a perion or verire measura-1483. Are you speaking all his yaids of milk for the online period, or for a final period of twelve membra— 1486. Do your own owns got up to that areasged—I down heep a recool, but the coors are very like year. 1480. The period of the period of the period of the own and the period of the period of the period of the own and the period of the period of the period of the own and the period of the period of the period of the own and the period of the period of the period of the period of the own and the period of 7439. I take it you feed your cows well?-Yes,

7440, Do you give them reets-mangolds and tumine?-Yas, and Indusq med and notice cake and ground cets, and some other things.

7441. What do you believe us the best null-feeding?

—Propis in the retail trude one very fond of cotton Total. Have you any difficulty in soling male when the cows are fed on tumipe?—If you use those cakes

And mixed the margar will not be affected.

7463. Are the cows turned local during the winter
exacts as any time?—Hirefly, in Ulater.

7444. They are pestured in the ordinary way in 7445. Do you give these any settlenal feeding on the

7446. And the friend of whom you spoke, does he feed has eatile in the same fashion?...Yes. 7447. That would account for the fact in a hear degree that he has got above the ordinary yield?—All the farmers in our district feed on meal and calls all

7448. Can you suggest any means whereby it would be possible to improve the produce of milk from the row other then the scheme which has already been put into opinion by the Department?—I would make that they would give promious for boils of a military 7649. They do persone doing that?—You. Last you, so the North-East Show, there were two pressing offered for sale, and they sold at a small

nolimals content to price 422. For the price 422, 182 year would suggest that price would be 7450, 85 year would suggest that price would be offered for such animals to compete amought than offered for such animals to competition with the pore-level selves, and not in competition with the pore-level selves, and not in competition with the pore-level 7651. I quite agree?—The farmers depend largely on the price list when buying cettle.

on the price list after beyong eathle.

"Alla, Be you think it would be a good idea is classes were established at local shows at which them prizes would be offered "-150.

"7450. This advantages offered at the present distance of the contract would be made and the present distance of the process of the present distance of the present dista

7454. Even though you don't keep them yourself?-1 Tess. He yes were keeping your own your is sail wer cut you would keep recentle?—You. Tess. Bo you were hay springers?—You, slways. Tess. What becomes of the outers?—I need then

to the country,

7498, Thry den't year in the general managers this
takes place in Belfard?—No. We don't sell many
calves in the market in Belfart. They are ordered months in advance. I attend the market here, and in I look upon it as only the budy-coloured eaten and the culves of bad shape that go into the abattoir. Then

calves am only a few days old.
T499. Lody Evrasum...At the price of store entile is
would pay farment to rear culves?—Xes.
7400. Mr. Wilson...—You have been in the human long enough to know whether there has been any con-siderable change in it. Would you say that the reagin stderable change in it. Would you say that the of profit is greater or less than 14 was?- Less were buxing meels and cakes from £4 to £7, and now they are from 48 to 410.

7461. Would you consider that the cost of the cor you are buying has gone up?—Yes, by 42 a head

7462. Have you had to mercase wages at all?—To 7468. Has the cost of the carrying out of the Osic influenced many people?—I understand it has affected the small bowns where people keep one or two in three cows. These people were put out of the teste. 7464. Would you consider that these would be a kin

loss to the supply?-No, one hig men could supply se much as twenty of them.

1466. The reduction in the supply as not serious! 7456. Have you say experience of the tubercule

test?—I was interested in it as the case of four fish cows this year. They averaged £30. We get the reterinary surgeon to test these four corn, with the result that two of the cows readed and two did not 7407. This was for your own assistation?—For sold as a local town. The veterinary surgeon are the cow killed. She had reacked, and she died a the cow killen. One had research, and one was a mound cow as far as he could not. The other cow came to Belfast and was sold for £23, and she passed one respective as a sound one; she had also reached one respective on a sound one; she had also reached the other owns went to a neighbouring lower and we could not trace her. Her price was 201 184, she did not reach. Another one was hilled in the public abulator, and her lungs were body affected with 7408. The Commun.—And the Subground test was applied by a perfessional man?—Yes,

7020. That goes to discount the value of the test?-7470 Mr. Wilson,-That 65d not engaging you to bother very much about 149-No. 7471. The CHARGEAN.-It is very interesting to know

exactly what was the result in specific cases where the test has been expertifically carried out?—We had the thing sifted out to the and. We followed the motion 7672. Mr. Wilson, Do you think that if some means were derived by which the dairy femore could be encounged to preserve his hag milking cowe for tecching purposes it would be a benefit to the country? 103. In other words, that the cognition of the pountin now should be developed?—Yes, but at the same time the fegures of the Department show more

dairy cows in the country new than ever of the same high quality as they were? .- No. the same light coality is they were to the literating 747s. What is your opinion as to the literating meeting?—I would have no objection to it. I would fevour the maintains, but not the precedure, being

7476. The CHARMEN.-You would be in favour of a herace only heing gunted to a person of obcan the local authorare had some knowledge, and in whom they would have confidence that he would every on a legiti-

would mare communications made tended—Tender about ft.

1478. Evidently from what we have been told the
people in those districts do not get a sufficient supply?

No, they havely get any.

7479. The people do not seem to know the value of 17-They do not want it.
7450. If they wanted it the dutry teads could supply it?—Yes.

7483. Even of the trade was small?—Yes, they would be will that tile the poer people's children, but the word of it.

7482. Have you may comments to reals as to it.

taken by the Belfast efficials do not represent the quality of the milt sold in Belfast. 7480, Why?—The impector's business is to first out the people who are giving a poisonous article. They know the most sub-gives good milk. They devote all their energies to the shady milk. Good dairymen would not have samples taken from them so often.

This beings the apparent standard of Belfast milk-lower than what it really in 7684. The CHARREST.-But from the administrative point of view the pearties is quite legitimate, becomes in resulty they are carrying on a posecous trade that they must deal with?—I do not complain of the mes; they are doing their bost. I believe we have a higher

they men deal with—" die noe singstain of the men; they men deal with—" die noe singstain of the men; they are doing the best. I believe no have a higher they are doing the best. I believe no have a higher they are the singstain of the singstai

to on, so that there we had a same three to except the same of semples that would show a low perording of fatty material?—Yes. The cureful sunsinglet cene below the shunded as the meaning copyly.

790. What is your data as to missingleting the
supply?—En a hard to any how it would be precibelled.

791. The Chamack—Do you hoppen to know any
dark strengther who wearbor said to applicable. dary proprietor who supplies sails enclusively to a poor weeking class population?—Yes, sir. There would be fifty even in Belfast whose trade would be exclusively againg the working classes 7462, I am not reflecting on any individual, but de you think that the more in that class of trade are less arreful than mon who do a higher class trade?—I don't

Yest. Is there any men, keeping a deary like you do, who sonis wilk into Belfast and sells it to a weeking-class population?—I suppose there are. class population—— expenses of the moleculer of 24th. Bo you know of any?—No. The moleculer of the fermen in our locality reline large quantities of taille, and the purveyor carrie come out four Bellium and the purveyor and our Three see a reline.

limited number who do a retail and wholesale trade. They nearly all sell to Belfast men. 7486. What is the difference between the price paid by the direct consumer to you and the price of the nells to the wholesale purveyor?—I suppose it would be from 3d. to 5d. a gallon.

1406, Surely it does not cost from 3d, to 5d, a gallon to distribute your milk?—I thank it costs 3d, a 7407. Your estimate of the cost of distribution would

Mr. W. Bossow Monnow .- 14th February, 1912.

to bl. a gallon?—Yes.

7408. Mr. Wilson.—Have you any experience of kyphoid carriers?—No; I am glad to may that I have to experience.

1400 Mr. O'Beaux.—Have you many labourers in your district—agracultural labourers?—There are what the farmers need.

"MN For are they heused?—Some of the farmers need."

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have nottages of their own, and there are some Union cottages.
Titol. Are there many cottages under the Acts?—In our Union I would say four hundred or five hundred, and shout three hundred in hundre. We stood first in the North of Ireland for the number of acitages we had

built.

7502. Previous to that were the labourers well housed?—Not particularly well. nonesty—Not particularly well housed?—Xes, since 7508. Now they are pretty well housed?—Xes, since the Act eams into force. The medical offsecs have been deray their dayly better; they have been looking after the old bouses, and bouses have been improved. 7504. Now that the libources five in their own

TOM. Now that the intources five in their own cellingts, where do they got shelf supply of malk?— They mostly got it from the farmer they work for. 7005. But does be not may, "you have get your collings and you are independent of me "!"—In a great many cases the milk or included in the labource"s 1506. So that on the whole the labourer as neetly well able to get a supply of milt?—There is no breshle in our loudity. In some localities there might be a hitle treatie, but not in our immediate district.

1997. The Chumun,—I would like to know have you may difficulty with your dairy walkers?—No.

7508. You get them to stand to their work on Sominys?—Yes, 7009. Do you pay doory workers higher wagus than the farm hands?—We have to pay our millmon higher rages 7310. Xou say you do not have any difficulty to retting Sunday work dene?—Not much, 7311. That difficulty has not moreased in recent cont.—I don't think so.

yearsh-I dear think io.

7513. Which waper do you pay your ordinary
milkersh-Our endmary libraries get from 8/- to 10/a work and their food.

7613. If they were listing in a coitage of their own
what would they get?—Aloud 14/- per week. This
would not mirhade a free outlage and other advantages

would not mirhade a free outlage and other advantages outh the filters a week.

Tota, And these next social in the miking?—Some of them. The men weeking with horses do not milk at

all. 7014a. The other men on milk?—Some of them would The other men cagaged on the form would TSIS. Do any women miR1—Yes, it is purily done with the help of women. TSIS They do nothing on the farm except assist in the suffling?—Some labourers' wives would do other things, 7517. What time do you start milking in

1017, when time up you that, among morning?—About five o'clock. Every durymen his bis own time. The time of milling depends on the distance the milk has to be taken. Tolls. What time is the milking done in she after-7519. Is there much difference between the quelity of the units in the morning and in the evening?—Yes, the evening milk is licker in fat. TS20, Have you ever tested the milk to meertain how much higher the percentage of fet in in the morn-Ing that is the creating?—Yes, tongs times are necessary.

Total is there a restrict difference in the quality of the milt?—Yes, a great deal of difference. It is lower in action, but richer in taxs, in the evening.

Wenson.-What sheet the crutom that 7603. Sometimes there so a shortage in the supply 7694. There is no way of powering the drives from

buying milk from a contaminated source?-No. 7325. The CRUITS IN .- Has that happened? Mr. Wilson -I think it is one of the most risky factors in the tendsMr. W. Boszer Mozzow.-14th February, 1912

The Cramman,-Does at sometimes happen, Merrow, that your man, when he goes out with his usual supply, would find that it was insufficient for his own customers?—It might.

Tibb. And in order to save the customers from disappointment he procures milk from other sources and sells it as your milk?—Yes. 587. And that milk may happen to be adulterated and unclean, and you would be op-u to prosecution for

having sold 107-Yes.

Title, On the other hand, does it over harmon that takes out a quantity of milk expens of the requirements of the day?--He practically knows what to take out, 7539. Is be ever obliged to brong back say?-Yes, a quart or two.
1080, Mr. Wrason.—It is the ordinary convention of the trade to oblige another vendor?-Yes TSU. The CRUISMAN,—It would be a serious loss to have surplus mflk that could not be churned?—But

people have always fundation for churning. 7500, Mr. O'Biana --You gave the average yield of notk in the case of a book belonging to a friend of yours as 800 gallons per cow for the year?—Yes.

7883 That is a very high average as compared with
the whole country. It is practically double the average of Ireland. Does that man milk only one oow during average of forty cons. 7684. During the year?—Yes.

7K35 And they were coming in at different times? 7690. So that there would be practically the full 1000, 80 thus never would be practically one tom firsh of each cow?—Yes. These cowst would only average one year, and the average was almost 800 gallons. These were not average cows.
7387. Also the percentage of milk fit seems to be high m Bellust. You were stying just non that we high in Belfust. You were saying just non that we had no right to take the samples referred to this morning by the Food and Drugs Act Improver as represent-ing by openity of the average mile of Belless—that This. So that you appear to think that there  $\mu$  an exceptionally good quality of milk  $\mu$  Beldant  $\gamma_{\rm ex}$ . As compared with Giangew, Luverpool, and other towns, the standard in Belfast in very much lighter. I have

7539. I think at is higher then was shown in Dublin and you sell the milk cheaper, and you don't complian that you are driven out of the trade?-I have the m Edinburgh, out of 200

7540. Mr. William, .- It all depends on how the imples were selected. If they were laten from aspected cows the percentage would be probable would be probable There has been a feeling abroad that there as geni-objection to inspection. I don't find that at all, or covere, the feeling abroad is thut the relegions, maps of the country inspection.

7541. The CRAIMEN, -- So that you would suggest that the hostility exhibited is largely due to the fact that the local votermary inspector exposes so seem inco-professional men gaing in to criticise his work?—That has been the objection to the Belfast inspector gains and that was why they advaced the farmers not to allow that importio

7542. Mr. Jordan also found some feeling of the of processors stage-server are the control of the stage o 7548. You think that that would be effective way to control the trade?--Yes. be the most

Local Government Board Respector to look after a certain sumber of districts. Dairymen are not afred

#### Mr. CRARLES Ross exemined.

7544. The Chanson,-You are engaged in the milk 1545. In Cutinus,—100 are employed in the min-tends within the area of the City of Belfants—Xea. 1545. Do you find the inspection by the officers of the Belfant Police Health Committee in any degree caseling or Obsence—I cannot say that I do. I doe't think they expect more than what is necessary. 7546. The standard that they have laid down, you think, it perfectly reasonable and legitimate?—Yes, 7547. Do you think it is unfair competition for the deleymen in the City of Belliest to be obliged to compete with those engaged in the trade in other districts where the same regulations are not enforced?

—It is hardly fur to the Bellist damages. I should any that they were plated at a disadvantage.

1548. What district do you supply?—I live on the
Ormeau Boad, and generally supply in that district;

7540. Is it a working-class district?-- Not allogsther. 7550. Houses which are let at a rent of \$20 or \$30

a year, and which the city clerk or the salesman in the store would occupy?- Onthe so. 7551. What quantity of malk would a family of that kind take for the support of the household?—Very little—generally from a quart to three prints for a

a baby on the bottle. 7588. Do you make any special provision for milk for young children?—No. But a sustemer might sek for

that is due to the service of medical men. 7864. What has led up to that change, do you know?

—80 far as I see, medical men have pointed out that
there is a danger of one ove going wrong, and that it is safer to take the milk from the whole dairy herd. 7556. They think it is enfor to take the milk from the helk of the whole herd rather than from a perticular 7656. Mr. Wilson.—Would you not got it this way, that if the one cow goes wrong the child must suffer!— I don't know any sanyunan who supplies that kmd of milk to an infant.

TSST. But be might not know ::?—Then he does
not mind his business. He should exercise so-cal

care in the case of infants.

7538. The Charman.—Have you may knowledge of the condition in which milk is sent into the City of 7559. You do not purvey any of it yourself?-No. I

Tool. for milk myself.

Tool. You don't take in any milk?—No.

Tool. You don't take in any milk?—No.

Tool. Do you keep any milk records?—Only in a

general way.

Total Do you follow the ordanary custom of keeping railch cover fee only one suffixing period, and two fattering them off?—loss deargone possenily do that. Total, How long are you in the teach?—Bree I was ten or effects yours of lage, and you can yadge, yourself but er dreen years of lags, and year can yadap yearself how found is mit if even that, in it is even that, in the property of the property has a self-corne number of good control bear to be a self-corne number of good the property has been a self-corne number of good property has been property to the property has been property and the property has been property and the property will drawnow in the property of the property will drawnow in the property of the

THE. And the result of that is that the medicare of second-cless animals are left?—Yes, too great a pro-

portion of them, and too small a proportion of the first-

7166. Do the cross-Channel hupers attend Belliut? ... They go to the outsoic fairs themselves now. They 7867. And they ship direct from the fairs?—They ship from Belfast or Dablits. Of ourse, Irish town dairymen, as a general role, don't want before of the first or second calving. 7556. Have you any views as regards literaling—would you be in favour of ith—I would, certainly.
7550. And you do not think that the people in the tends would have any reason to occupium if it was case universal?—I would not, and I do not see him anyone orall.

270 Would you think it would be reasonable to seven local authorities with power to refuse a license to a person whose unicodents would not warrent the helicit that he would carry out a legislamine tested—Xes.

is the fithat he would carry out a legitimate tester—Yes, 7371. Have you any difficulty with your vertices; are they more difficult to possion.—They are more difficult to possion. There are not so many working-ness on their med to be, and we find it protty berd need as 1990 uses to be, one town in proceed to post them.

Tails, We had it in oradinate in Bublin that these verbers were nounds and people without fixed residences. In these a west of continuity in their services?—I have not bound it so. One man is with me keepley pears; another bear or efferor pears, and the

other man nearly as long. 7573. Mr. Winters, --Would it be fair to sak the rate of suggest --Twenty-two shallings and sixpones a week, sed some suffix and some extens-generally their tex.
7574. They reach the level of the shilled labourer in the city's --Yes. These three men never lost any money while in my service.

7575. The Crummax.—When do they stert work?—

They start about five o'clock in the morning and one-time as lete as possible to the evening.

7395. Do you find constienable difference in the 7070. Do you find considerable difference in the quality of the morning and evening milk?—I find it is not so great in my once, because I equalize the periods of unification.

of unfiring.

7577. Mr. O'BRIES.—How do you manage to suit-your customers in that case—don't they expect to have thou milk delivered at a certain bugs?—They have to Tors. The Caussian Living in the city you have not to wente an hour or an hour and a helf to get

into the city?-Outle so. 7579. It is whipped into the certs and delivered immediately?—Tes. 7080. And you save considerable time in that way?-Ourte so

TIBL Have you say reason to complain of the manner in which sumples are taken for analysis?... No. I think it is done very berly 7582. Do you counter that the return made in the report of the Medical Officer of Health for the Belfutt the city?—No, became, as the last witness explained,

7580. One can quite understand why that is done from the administrative point of view?—Yes.
7596. Your point would be that these samples are ect a fair indication of the cedimery standard of milk secolled to the city?-That is my opinion.

7586. Regarding the perce paid for cows, in your experience has it varied—is it greater or less than it was?—Greater, and showing on increase every year. 7596. A steady ingresse?-Tes. 7587. Do you give grams to your count-No.

1988. Do you feed your cown to bed when their milking period is finished?-Not alterriber. We always keep a built in the winter season, and will serve A P expertion of the cattle. 589. You don't sell the cattle off after one miking?

-Yes; we only serve outile that have proved remunera-

7500. You don't keep records?—No.
7501. Do you know from general observation that these assemble are positionable to keep?—You,
7502. Would you tell us what is the average of your hard in the bedre months?—I would say about 500 gallons. 1993. Would they reach that standard?-Yes. The town dairymen buy a good class of own.

7804 Do you find any roots to your sow?...Yes, about 35 lbs. a day. We solden give these mangolds. 7586. Do you give them turnips?--Yes,

tauting the nulk!—I never heard may tuck compleme.

7597. It needs a little courter in the feeding to environ that there would be no flavour given to the milk?—
If the cettle are milled immediately after being fedon terraigs there is a taint, but if they are not fed
until after they are milled there in no tereine. If unns meer sery are mines tarre in no trouble. It feed my cown seconding to the price of the feeding stuffs. I next have bay. 7000. You don't like straw?—I perfer hay. Of courts, if a man has show of his own these as tempts—

tourse, it a min me show to an even me as mapped box to use would perfer to buy key at an enhanced prize rither than give slew?—Xea. 7500. Are grains used by any only delayonen?—I should my they are used by some people in the utilic

train.
TOOL But, or a rule, they are not regarded as a suitable diet for dairy cover—I cannot tell you what other people think, 7002. They are so regarded in Dublin I know?-

Century! I age with that, Total in Dumin 1 stower-Century! I age with that, Total, Lady Evrasums—De you keep your outile in the house in the winter?—Yes, Total The Chamasa.—Duming the sammer do you send them to greats?—Yes, 760. Have you land of your own?—Yes, and I take some as well.

7606. Has there been any increase in 6be rent
charged for maning had during recent wars?—I cannot say three has.
7007. Mr. Wilson,-I take it broadly that you would subscribe to Mr. Morrow's opinions regarding the constions I get to hun?-I should not I would. in the same manner as Mr. Gregg malicated?-I did

not bear Mr. Grogg's evidence.

2606. Anything that would improve the malk-yielding properties of the one would be of inferest to you?— 7510. And you would appeare of any scheme with that object?—Yes, ust objects—xea. 7011. Bir Sunwarr Weenmoren.—You made reference as to how samples of milk are taken for analysis?-

7622. Is at that you don't think that the persons methods are the best methods?—I dan't see how there could be any improvement. I find that the cospectors take samples from all the dairymen in Bellius, but much more offen from new who are of a doubtful 7613. The Countries. Is there any other point, Mr. Boss, you would like to direct the attention of the

Constitution to -I council say them is, except that I would like to me outside delires inspected. Are you in favour of a uniform administration 7616. You think that the conditions under which milk is produced in the country should be the same

7626. And that it is unfor competition to have men visit. And that it is under supposition to have now us the city coupering with zero in the country, where there is to drive supervision?—Tet. The republican-tion was a supervision to the country of the way, but they would be copye, so no treely earlies may, but they would be the institute of the country of the country of the country of the country of the which nells would be the institute afterior is milk-corneas from Konngham, and I taink there is very little appreciation over that entity.

7618. Mr. O'Berrey,-I suppose you are not a philan-thropasts-I caused affect in in the first place. 7619. You are reaking that hashoes pay?-Yes.

76th, ton are mining our noticem payr—i.co.
76th. Its sease to one that you ere a philambrogous
companed with the distributorpers of Buildin. They
charge more for their milk that you do, not some of
them complete that they are being draw of or the
resident-Time in the first season in my time that \$0.0, it
a quark was charged for milk in Buildin. It has been
areas accountabled season in the Worth. 763t. You do not feed your animals on any green corps silage?—There is no sile. The people were series the beauties they said they could not bear the smell of rt.

#### NINETEENTH DAY .-- THURSDAY, 15TH FEBRUARY, 1912.

The Commissioners resumed their Sittings in the City Hall, Belfast, at 11 a.m.

Present :-- P. J. O'NEILL Eq. (Chairman): Lady Everand: Miss Mandaret McNeill: Si-STEWART WOODHOUSE, M.D.: GRONDE A. MODRHEAD, ESG., P.R.C.S.L.: ALEC. G. WILSON, Esc. and DERMOD O'BRIEN, Esq. S. W. STRANGE, Enq., Secretary.

# Dr. Engagery Sana examined

7622. The CHURMAN,-You are a member of the redict) profession?—Yes.
TGES, And you have experience of the manner in which the infant population is entered for in the City 7694. Do you hold any public appointment?-No. 7695. But you have been looking after the children

that are under the tharpy and control of the Bables' Club?-Yes, under the Women's National Health Association.
Tion. How long has that Club been established?---

7657. Is it in a working-class distingt?—Yes.
7039. Would you he good enough to give a history
of the work that has been done by that Club so long of the work sens and peen pone by that came as many Chibs-one in Drive-street, one in hork-street, and one in Newtownsends-road. There were 8,172 attention onces at the Club in Divis-street for the year; in Newtownsends-road Club, 2,082; and in Nort-street Club, 1,079; total number of attentionses at three Clubs for year ending 30th September last, 4,386. It street the Divis-street Club, and sententiams the North-7629. With what object were these Clubs started?....

To reduce intantile martality. horn made to secure that a pure milk supply is available for the habsen?... Yes: so out and adminish in 1st that we find to get a milk supply. We began in Macch, 1908, to give from milk in some cases. Afterwards we paid the difference between the prace of good milk and bad milk, and for some time past-since June terriversonths-we pay half and the mothers pay the other half. Last year the amount expected was £188 Da. 41, and of that we paid £50 No. 82, and the number of belief who recoved milk was six handred and treaty, No. 1631. Have you say institution in Belliest such as the Sittle-mond Deposi in Deblikt—No. The milk is

uspalled in sealed bottles in the bones of the abildren. 7602. Have you any arrangement as to the treakment of the milk-is it pasterised or otherwise treated?-No; pure milk untreated. 7633. And the security for clearliness is that at is sent round in scaled bottles?... You, and the dairies are

7034. What price do you pay for the milk?-4d. a quart. 7685. All the year round?-Yes.

Time. With regard to the treatment that children receive generally, are you of option that they got a sufficient quantity of rolls food in Belfast?—There is 7697. Do you helieve that those in charge realize the advantage of bringing up their children on a milk diet?—I can say that of the women in the Club.

Tens. But you have no experience yourself?-- I have TEER. Do the mothers approxists the help they are

7640. Do you find that there is an increasing number applying for the auditance you give?—Yes, about one thousand exten since had your. We would like more

7642. The defeat in the Club funds is made up out of the funds of the Women's National Health Associa-tion?—Wo; we have a special milk fund. 7643. Is that generally?-The Sab-Committee of the Infantale Mortalaty section make special efforts to get these funds 7844. And up to the present you have been able to mise sufficient money in order to give the assistance recessary to the mollers of manufactor—Nes. 7645. You have not been, for want of funds, obliged 7666. You have no seen, my warm or water, to withdraw the giving of the milk supply at a reduced

rate?—No.

7640. Do you think that it would be a policional rough the year time that it would be a pointener expenditure of public funds to contribute for a similar purpose?—Yes, to pay bull. I believe in that, 7647. You believe that it would not be possible to would require it. 7648. You do not give the milk chemper to one thus so anomer: —We do in some same. If the decise orders, a mother can get a quart of milk for a perny. 7549. Where the powerty is scute?—Where the buby

secures the milk and the parents could not may. 7650. Do you find that estiminatory progress in read by the children fed on the cells provided by your Chair

—Xea. The morse of the Bahire' Club is here and will often existence. She has the features with record to the ogress. 7651. Have you any experience, or have you learned from the mothers, whether many strikiren, spart from the babies, get one milk food?—They get very billi-

7602. In that because of the powerty of the parents

7654. I was rather curious to know whother or not it was recognised that the milk purroyed in the working class districts was sent from one dary

working chase miseness was tent intens our usery recomments, honours we have had some rather con-vincing evidence that the standard of milk produced by some cove-loopers is, to say the least of it, not very high; and I wanted to know whether this milk wis ngg) and a vention to know whether the mit was preveyed amought the working classes and acid to them.—I think they got poor milk in the lack streets. 7650. What price do they pay for it?—3d. a quark, and iff they buy in semili quantities they pay at the rate of 4d, a graset for it. 7656. Do you wish the homes of these below it

mothers?-Xee, occasionally. esthers?—Yes, occasionally. Every week the methers test being up the bakes to the Club to be weighted The mother will not get the male otherwise. It stope away these times we stop the milk supply, and we her to come.

7637. How many have been disqualified for progular aktendance?-Very few. 7658. That goes to show that your work is edica-ional?—Yes, it is really educational. We had to give 1039. That goes to many tract your man at tional?—Yes, it is really obsestional. We had to give the rull. It was started for educational purposes alone, but we found it necessary to give the milk. 7609. So far, you have had no difficulty in providing a sufficient amount of money to enable you to early on your work?-No.

7660. But you are not dealing with the entire area that needs assustance, and it requires a fresh effort every year to get up the fund?—Yea. T641. Would you like a multiplication of the clobe in other districts?...Yes,

Dr. Kuraugry Burg. -- 15th February, 1912.

7031. There are other districts in which yed would desire to extend the sphere of year work if funde 7002. And year see of spicious talls it would be a proper expenditure of public lands to contribute 50 tools. Tools, i.e. it your opinion that savey of the sinkerist couldness that are coarriag off such a large perconduct that are coarriag off such a large perconduct such as the coarriag of the spicious contributed to undescribed.

milk!—That is one of the cause.

Tota. Do you think that is likely to produce sichilated constitutions in the children brought up to it!—Yes.

Tota. I presume the people with whom you deal have get very little idea of the proper method of preserving the people with whom you deal have get very little idea of the proper method of preserving the people with whom you deal have get very little idea.

7666. I presume the people with whom you deal have get very hide idea of the proper method of preserving milk from enformination I—Tex, very Shile, indeed. We try to teach them the dangers of milk contamination.

7666. You give them a sort of demonstration cach

tions they game—boy learn everything it is possible to teach them in report to the care of different—low, we give them individual instruction, and they are very grateful for it. 7007. It there any other supert of the question that you would like to direct attention to, Dr. Bell?—The definings of lat is the mill. The lat is taken from

the rolls, I belove:
TORS, Lody Krunara.—You say that the Club pays
a ballycony for each past that you give away?—One
powry, and the mother a percury, since Fars, almost
TORS. Do the mothers appreciate what the Club is
delign—I finish they do.
TORS. When the below see reased, do you find the
rollsers bright to buy the good milk themservest—Yor;

Holdston space.

The control of the

1073. Do you have the Balcos' Club as a centre, and do you work round lit-Yes, if a roman comes from eastler during we may, "you caply to attend the Newtownshi Club." 1076. Are the three Club under you?—No, there is sauther doctor.
1076. You see over the Yeckstreet Club?—I am

1070. 100 see over the Yerkestreet ChipPr-II am gong to be jud we were beared out these. 1070. Do some of the women werk?—Yes. 1077. And what do they do with the behins?—Some of them have them coved at home, and some give them to a neighbors, and some send share to a Crecke. 1078. You have receive?—There are some in Bellius.

And these recovers—Latter lay latter in publish, and the Bellist Corporation N. N., which is a publish to the Bellist Corporation N. N., which is a publish to the Post And do you delth if would be a purpor may for public savery to be spead?—I do no better way. The public savery to be spead?—I do no better way. And women of Bellisto?—Leve may up the forture our and women of Bellisto?—Leve my unw constrince of Post The Commence—Have my unw constrince of

1988. The Chaussax—Have you any experience of the use of condensed mit by these people?—It is over a year since I heard of anothered mails in the Club. This is a photograph of a typeed beby who never get any creams. Any mother son bell you what is wrong with that beby. 2884. The observational effect has been such that you

some the current effect has been such that you believe you have driven out the trade in condemned stift, so far as the people with when you come in contact are currented. Tell, and of course they sell their neighbours. I think the educational advantage is good.

1885. Mr. Whane.—Here you any action forms are

Wiss. Mr. Wagner—Bayer year any netonal agrees as segred the deferrency of the in mRIT.—The messes we will be supported by the second of the many second of the second of

problem in the city of Bellint-white's would you in the sea adapted?—I would like pursuanted with. would like their a poor wastan, who did not know good milk tran hold, could be too of golding good milk. Your, Any meshad of government would unquestionably you up the puries?—More waited. I you for the puries. The property of the purious of good with for interpretace a quest?—I think you would age and with for theoremse. I do not see why they could ### In the night—Lee. For oning pool will you could pay inspector a quark. I believe milk in worth froupeness a quark. The people that we are consumed with in a position to pay formpose a quarth—Tox would make present the pay formpose a quarth—Tox would make appearing that milk a fivepose a quartthey often special its 6th, in weak for an infent food, and they could have at for In. 34, as the formpose a

"What Lody Romann—You say even the had milks in self at harperson a quarti—No, the pure could." "1922, Mr. Wannen—With regard in the street which the unifocute survey goed down, come recipies to conline to self recial quantities, and it has been engageded to the could recipied quantities, and it has been engageded and inferrious encounter, in sook a way that it would pay a distription to call at a whole eiterst of homes. The Women's Mentional Health Amendment might below to go to our positional days of people in that street to go to our positional days are the conginging in to, apoptly the street. Would you consider

gas a diargram to cell at a "while street of bosons. The Women's Motham Hosh Association might labe a Women's Motham Hosh Lebeschine might labe a to go to one posttuder delayman, and have one east gaing in to supply the street. Would you consider gaing in to supply the street. Would you consider not get victuately work for well. I see in layour of propriet people for work. I find it very level to propriet people for work. I find it wery level to 1800. Ledy Stranson—I shale what Mr. William scens in what is being date in several districts in Technical ton it is where it is being the proposition.

s the milt pays the rent and the saliny of the saretaker. That sichem is already in operation in eversil parts of Ireland, and is during very good would—I am sure it would be very good.
if you have every good.
if you have every good on the same it is not to be a want of the control of the same in the sales of the dependent of the same in the sales of the same of the outbook of the same of the others we have load before us they were more on a commercial base.

commercial uses.

Lady Strusses—At Curlow they pay burpence a gallon for the milk in winter, and at Nasa tempence a gallon, and they have operand deposit for powerful of the poor with milk.

Mr. O'BERNS—The milk as sold from Leed Bowe's dury in Birt to the downspeeple at a permy a punt.

Lady Strusses—At Nasa they how it at intercent

307. U Harro---ton mare at mask 1000 neon conventor and the state of the state of the state of the state of the Long Pervision and National State of the state of the gallon in winter and raphyteco's gallon in summer. 1981. Mr. Names—1/4 point in best if this direction were some expension in the way—a whole street of the 1981. Mr. Names—1/4 point in best in the street of the state of a document with the state of the state of the state of the 1981. The state of the state of the state of the state of the 1993. Yes, street by street—It would be very good.

if you seem organize in the a personnel approximation?—
— As a size your system roud be very good.

Your, You would be its ferroup of a solvene of that
following size-postly—You. I think multi hards
the size size-postly—You. I think multi hards
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7700. And the expense of delivery is greater?—Not if the bottles were in the shop.
7701. Handling is a much roose costly thing, it adds to the expense of predestics immensely. You could not get if at foreprose a quark is bottless.—Some of the power houses have use a rug. Some of them have

700. Lady Evinum.—Why is that, because I think the enduce we have had before on in Bellian scene to show that the mage are very good? for Mr. Winses.—The house where there is no furnish ture and stool seed jug, is not that correspondy the house of a Sauthy where there are some expirations of house of a Sauthy where there are some expirations of

boules of a Natury water to the see some supportion of direct — The states on a support that questions is lat we have onch known.

7933, We have but a good deal of evidence, oppossibly the more Professor, Thronton, with regard to the food to the food the food that the season of the food that the season of the food that the season of the food to the food that the season of the food to the

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Dr. Righamere Bale. Lifth February, 1912.

1996. The year below in 187—76. If you can supply the fig. (Take) come in charger.

I the contract charger is a supply supply the property of a supply suppl

and non-street in basing in old of the 600 course, and the parties habitaring. In both parties habitaring, but the in plants. The parties habitaring, but the in plants. The parties habitaring and the parties are proposed in the parties of the par

TITL. How do you cannot be delinated than such a TITL. The do you cannot be delinated to such a TITL. To supply the your limit from various displaces, No. 1777. The supply the document of th

of aroun, and the conduction of that that we plot are 2773. It is not think then figure as a secretical—I have any our gloss and I reasoner in a consistent—I have any our gloss and I reasoner in an accordance of the conduction of the control of the conduction o

7735. Mr. O'Borrs.—What age see these behies that are disjible for the othet.—Under a year old; but we do not stack too highly to hat confidence.

7750. What is the quantity of milk given to a baby?

Well, a year will do be three months or four months, and a quart afterwards. We have not been able to give more than that.

TWO. That is for believe up to a your old-Yes, 1798, Do you know it this natury part mills for the older shifteness—I extract starter that TWO. How they you good against this quart of mills which is got for the child being distributed succept the other childran—We wear the bodys and wellned if it show not such its weight we say, ""you did as give the quart of only to be your own, experience as the property of the contract of the contract agreement of 1790. You don't know have give hard children gett—I counted asserts of oblighing with an and the got the

733. You say that the quinty of the milk before you smined this Cale was so but that you had to get you smined this Cale was so but that you had to get 7732. Where does that he do milk some from, because I about have such from the orderess that we have bed that the shrinded of milk in Belfars was subslant than otherway; that stees was a good rapply of maker a high quality of milk?—No, so in the procelaries also supply of milk?—No, so in the proceles. So we of the people giving evidence used high the milk was up to 4 per ext.,—We often got up-

Some of the people giving evidence and that the malls was up to 8 per cents. 8—We often got only 1.4 and 2.5 per cent. of tax. 7794. Do via opposented—We have no poser as posiciotic. We only show the mother the tax value in a geding for monop, we have a second of tax of the control of the tax of tax of tax of tax of tax of tax of tax to the Medical Officer of Health and be could presented, to the Medical Officer of Health and be could presented. Tribb. Den't you die shart—No. We only will the mothers how such the mills: and advise them to get

mothers how held the milk is and odvise them is pail better. It does not seem to me to be an efficient way of making it better!—We tell the mother about the of making it better!—We tell the mother about the internal processions in bellots. Time, Boy yet think the qualitationest is not sufficiently great!—I think the mult standard is too low generally Tide. Where you get milk that is very decided below the shouthed—in coors where you get it as 2.5, to repeat a consequence of the proble flatfords committee. In

sow whether you could not get that green prosecuted. This By you that that the effect amount of the state of the second of the state of the second of the state of the second of the sec

2164, Mr. Window.—It is not a master of comeversy, has of face, that there are a number of even is the country that mere go shave three pre-cent-filingle they should get not of these cover. I never fear think they should get not of the cover in the content. There are less of them.—I you should get not of them. These sees should be killed. I thank there as very low of such cover. 1745. There are many of them. We have had no 1745. There are many of them. We have had no 1745. There are many of them. We have had no above, give the more than blat. My follow and the above, give the more than blat. My follow and the of the Union in Newny, and I are the milk tools of the Union in Newny, and I are the milk tools

there, and in the workprum they never takes the subit the erean is below ten per seat.

1760, Dr. Mosserman.—Ten degrees of crown is equition 3.5 of the.

Mr. Window.—If you were fixing the legal standard, would you take the law synthete cover moto considerations?

—Ten should get in do the low grade cover.

2747, Dr. Mosserman.—What is the standard in

human miles of fast—Torm two per cent, to series per cent.

7348. Of a healthy young woman?—We have taken samples of mether's milk and they are generally about five per cent.

samples of mother's milk and they are generally about five per curs.

1740. That is very high?—It is good.

7250. I have some statistics here of Parke and

Kenwood, and they give the source of 3.2 per cent. In one case, that of a girl of 18 years, the percentage is 3.5, and insurface one the percentage is 3.9, we see that they are both under four per cent?—I would advise that mother to take the percent. Would advise that mother to take the percent gird. It is hard to get a sample of mother's milk.

7151. These complete have been taken?—Yee, but not perfectly the percentage of the percentage of

hadd to get a sample of mether's milk.

7161. These assuption have been taken?... Yee, but not under natural conditions. You must exhaust it with a pump.

7112. That is no. Why give a higher standard to the cow's milk than in the woman's own milk?... Yee den's give the busby cow's milk. For water it and

you reduce the fat to half.

Dr. Eugenery Span,-Lith Pobroury, 1902.

1993. Is your ideal standard of milk for a chilk not has then feen per sent, of futh—I would like four per sent. I would really this nears. In my own permits practica I always adopts giving all the creem of a quart of good milk in the first feet meaths, and all the armon of two quests from four meeths on.

the arms of two quests from four meedls are.
"YMS, II is an owner on the right wide, II is an owner—
"Attempt it don't like a fix below. The copy scople
"ATTE, the synearize Woossnerum—About what proportion of scothers mean their own children's A very
"TMS, Wirell you say that thereof have been a
"TM, Wirell you say that thereof owners that the
more that own children's—I would say so. Inthe
more that own children's—I would say so. Inthe
more are preducity good in their why the reserved
before the Scotty was certifiabled, do you count that
the molt year affire or winter-AI—believe the mile was affire or winter-AI—believe the roll, was affire or winter-AI—believe the mile."

ean arbided of the feet.

7938, Have you a limit of wage in estimating the people size have a right to charily?—No, we detail could make mit in the W. I be the could make the people with the milk they get us the Club, and they have learned that good make in chapper than poor malk.
Thus, You satisfy yourself that the duty that supplies

the malk as a deary run under good hygionic conditions? 7761. The hottles are thoroughly weahed?—You. 7762. Do you use fresh corks in these heidles?—Yes. 7763. Do you stirchede the summer disreboss in TYPE. Do you use fresh corks in lates believed—114. TYPES, Do you sitelyhold the summer disarbors in children to any large extent to the quality of the milk?— Yes, and to the firm and dirk. We blame it mostly on the files. We sell the people to keep milk in bottless rother than m onen vessel on their houses. 7754. If the standard of mult re low, is it not all the

Authority to stimulate their nest in analysing milk and keeping up the standard?—Yes. Only lately we have 1766. Have the

Title. Den't you think that it would be a good plan?

—We will tell them. Lately the nume took a lot of samples and we sent them to the snalyst.

ther been reported to the official

7167. The CRAYMAN,-Have the official authorities been made swam of it?-They know. 7768. They have been rather obary in instituting representations in Beltant, horause they had great difficult,

proved that the milk was tempered with. That was the evidence that was officed to us, and it was stated ble ovidence that was officed to us, and it was stated that side fleedshows of the maggination were cost that the Public Houldt Commutate and not leed position in mistissing processions unders the milk is below 2.00 per cent, of fath—the judges are not medicar. 7766, Do you think it would be more devisable to institute processition in all cases where the legal actualization and possible, and the the observation in with

that the Public Health Committee in harman mount institute posicectains, even although these would be a decist as to the decision, in order to show that milk of a particularly poor quality was rended to the poorer alaumn?—I think that it would be of great educational TITO I agree, but the other policy has commended itself to the Public Health Committee here. You

1771. Miss McNenz.—Have you many ozen of mothers going to the Club with two babbs ?—Yes. 1772. What do you find is the effect on the second. haby?-It responses in seems onces and not in others.
Tits, Did you find any great percentage of cases in which there was so improvement?—I find mothers are very amount for thair belies to do well. The

weekly amount for that it touch is a great help.

1974. A great meny of the mothers are women who go not to work?—Not a large propertion. There are some. That halp have to come to the Club, and is

horoght sy a some your secon would they hoght to work?—

1775. About how secon would they hoght to work?—

1775. About how secon would they hoght to work? some or them go out viry som. We street to engougage them to stay at home longer. 7776, Would they go out in two months?...Some are forced out scores when their bushands are not working. 7777. Have you many who would be forced to go to work m a month?-I don't knyw. Some of the

mm are lary and won't take work.

7778. Mr. Wilson -Do they still use the long tube belifie?—No; they doe not come to the Club a second time with it. 1719. De you see it used?—Yes, I see it in the home. 1780. Would you apporte of making its use Biggil?

#### Nurse Bearray exemined. 7761. The Commun.-You societ Dr. Filisabeth Belli

in the daties connected with the Beblee' sp. I stiend the Club and wait the habies in their bomea.

7782. With regard to the condition of these women.

I suppose you find a wate variety as to comfort and
densitions?—Xes, indeed. 1783. Some are extremely poor?-Yes, catrene poverty in many cases.

1784. Is it genuise poverty or poverty arising from extravegent behits?—Very often batiness of the men and intermerate balata,

1785. Is there more poverty sching from that exuse rate of wages repdays them extremely poor, 7786. Even though in constant employment the rates ore so low that their homes are very poor?—Yes, our, adening that a man has to support himself and his wife and five children on 10s. a week,

7097. What do they pay for house vent?—They would get no house under 2s. 6d. or 2s. 2d. a week. That would be a poor ofsee of home, and they would have to 7788. That is a breamedous amount to pay with wages such as you have industrial -- Yes.

7789. Do you find that the women have a proper and intelligent knowledge of the way in which they should recot their lables when they come under your instruction?—In some cases they have soft in others 7790. You find them trockside and desiron of against a proof knowledge?—You vary desiron and

making very presonworthy efforts to follow out the directions that receive. 7791. Do you find them disunstitud to carry out the instruction they reserve?—I have very little teochlo.
In some ense, of course, they would shootstay refuse.
7792. To peacive any instruction?—They would object to the help.

7700. You make it a condition that they must posite
by the matraction in order to receive the henefit you

give?—Yes.
TYPS. What quantity of milk would be taken into the
boxes of these people for the boxeshold generally,
independent of the indust?—A very small portion for
the general two of the boxes. They use confessed e good for good milk.

71%. The quantity of milk used for the broschold
18 mailly—Too. That depends on the wages.

71%. Do you think they really appreciate the value
of milk as a hood for children, independent of infants?—

but as moch as I would like.

71%. It the use of condensed milk at all generally—
18 as wer granned in the bronchold, I find.

Is as very general in the breachold, I mad.

THE. Why do they elect to use continued milk. It is not more concerned than ordinary fresh milk?—The is not more concerned than ordinary fresh milk?—The is is, and they bell me, and, of comes, I have the exidence of my own eyes, that the quality of the milk to the alone does not instify them in paying the price. extension of my own eyes, that his quality of the raffic to the dome sixes not justify them in paying the price for it. They don't get value for their money. They They see setselly in rebellion against the quality of malk couplind by the ordinary purroyse, sport from the milk given by the Clubs—That is no. 7800. In these a well-frended belief—that the milk is sheroemally poor?-I find it is so in the shero areas.

NUISE BEATESN .-- 18th Pobrosry, 1912.

7801. Do you think it is produced under conditithat are clearly and bygience, judging from appearance?-Sometimes it is anything but clean, and the quality is very poor in the alams—three degrees five degrees, and four degrees of cream—said the smarrisca of one sample showed thirt 488 parks of the fit had been shattestied; and we had also enuse of 382 and 28 per cont. deficiency in fet, and 8.49 per cont. of added water. The analyst said that all these samples had been tempered with to the extent of putting skim milk in to the extent of one-half and

7800. Dul you report these cases to the Public Health TROS. That is the view that was put before the

7864. Became people realise that mulk up to a certain sendard, which is below the legal standard, will not standard,

olium arting from a procession-That is so.

olium arting from a procession-That is so.

olium arting from a procession-That is so.

be a deterioration in those chaldren the service infancy.

Tolk, I quite kallere that but I am follong of the
policy of the Pablic Resolit Committee. Do you think

1907. And public opinion would become trate with 1907. And printe option would become more with the marksterial sulbority in not oc-operating with the Public Health Committees—Decadedly so. 7808. Is dried milk used by the poor 8-Not that I know of. 7809. In it sold at all in Belfast?-Yes, I think you might get it in some of the chemists' shows

7810. But it is not used by the humbler classes as a food for their children?—No; I have never met a stude case where it was used.

7811. In the occlammed male used as a liquid food or marely for the purpose of colorcing ion and coffee?—Colorring tea. They sometimes make true or other

1812. And when reduced to a field force, is it really sheaper than mile would be at fourperon a quart?-

their question. 7818. Still the sice seems to prevail in the minds of those responsible for the household expense that it is

7614. And I suppose it would be hard to disabuse their music of that idea?—Yes. I find people in the slows will go any length for pure milk. 7815. For a behy?-Yes I have beard of one milk min who has the reputation of supplying very good milk, and a mether told me about rk. I saw the mother in his section and occord are shown the mits she got from this vendor. She had to go shoot half a mile for it. I caked for a pint of the milk, and had

7816. She had realised, at all events, that she was citing good value "-Yes, and she had to go half a rafte refine good value "-Yes, and she had to go half a mile for it. I went to this daryment's place myself, and there was quite a crown of warner about the sleep. 7817. They also appreciated the value of good milk? -Yes

7618. That is a gratifying fact?-Yes, 7819. What was this milk sold at?-Pourpeace a

With And it normed to be milk that was properly cared and chear?—Xee, it did not show any sediment of any kind, and it equipped fourboar degrees of green. 7881. Miss McNexx.—Do you know if that specimen meming.
7822. The CRARROW.—Be you believe that there is

a still further field for the work of your Club in this city?-Yes. 7803. The depots that you have established at the persont time are only dealing with the necessition of the particular scena in which they are attended \$\times\$-Yea.

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7824. And if fends were available it would be possible to develop your work to a much larger extent in other districtor. Yes,

7825. In which, perhaps, the need in slinest avgrest?—Eos, equally pressing. In the vacinity of factories and working centres. ments and working controls.

Tion. Be you think that it would be peoper to develop public funds to support such planningops week as you have undertaken hore!—Undentakely I would short establishing milk depots. Dr. Bell was ested a question whether the world be in favour of milk dears. ering started in Helfant, as in various other parts of related, under the Women's National Health Amore,

Beind, under the Women's Nutional Health Amona-tion. Supposing there was a depot started, there would be so many gallons of good milk delivated to it dely If would be pure milk from a reliable source?—That These. It has been shown in other towns, and is done remarkably well?—I would consider it a very pool scheme indiced. There are a surprise of inflaton where they will stude and one highs.

2859. Mr. Warson.—Would you say that the

Personal rises on suprancos or person on an assessmenter may should be put out of brances.

2840. What is your equation as to the quantity of milk with on the working class arest in Editat—has be demand rises or bestered?—I control answer that I demand rises at the the bases that I cannot answer that the last the base into control of the control of

9881. Indirectly one would have thought that the result of your work would have increased the demand —That would be a destyman's question. I order the milk for the baby. I hand in some photographs of babtes who have been assisted by our Club. 7822. Your evidence suggests a question to me-783h four ornities suggests a govern the would you consider it one of the most subsuble thing that the Health Ausociation sould do in this fown, is collect a series of samples of rolk to the power distributed and have them analysed, and publish the results?—That 783. You say that you cannot get the authorities to early out a sufficient member of appropriates. You

Would it not come within the scope of your Auscoulage to mouse public opinion by publishing an ossilysts of that kind?—You will find difficulties in your way to get sumples tested by the city anothers. I would have in 7894. If you could get any espable doctor to do the

THUS. Would it not be wishin the scope of the Health resocution to arouse public opinion by publishing analyses of the milk, which you say is percisionally had —Yes. The babes, when they get good malk, have saired from four in. The habies, when they get good man, gained from four to eight outcom a week in weight.
7806. Has these been any change in the condition Salted from our capits outcome a week or weapon 78806. Has there been any change in the condition of the milk stoce the introduction of the Baleiss Order that was persualized in 18097—I am only dealing with the present day samples, and I don't know whether they were belief or wears from or it years ago.

7877. Dr. Nocemen.—Do you consider fourpeace a quart a high persent—I think, considering the expenses, that frupence would not be a high price, if the secole got reliable milk. The lowest price cruz to the worst milk in the winter is threepense heligeour 7838. You have given on the reason why condensed tilk has taken the place of ordinary milk is on account of the price. If good milk were cheeper would it not looks out the condensed milk!—Yes.

7809. Beought down to threepence a court, perhaps? 7840. Have you may expended over the crecked-

more than the ordinary visitor. 7841. How many of them are in the city?- 2 think there are these

7842. Are they under the management of the femon's National Heelth Association?—No. 7848. They are independently managed?—Yes. 7844. Are they largely availed of?—Furly well. 7845. Do you look upon them as being very herefoul? I am not in a position to state this. My private 7846. Ros don't know how they are managed?-No

Tour. Mr. O'Barre. Do you go to the homes where the batter are? I visit about sixty bahim at their

253 Names Southern ... 15th Pebruary, 1912. 7973. Is there a propulate against it become they think it has no food value?—Yes, and it is not pleasant

komes away week for the Wessen's Notional Health Association, and I san form on brached and twenty to see handed and fifty weekly at the Citis. When you go to the human do you see other children in the house? "Yes." 1999. Do you insee at all what quantity of malk flow ret., all the gat a secretary and the property of the pro-

1989. Do you leave at all what quantity of milk they pit—do they gat a sufferent supply—20-bi, in my opinion, in the betters of the very pice.
1980. Do you brink that they gat ball a pint of pormille gar band for children under ten years—1 kindly did that they would get their mich.
1983. When do skey height to reduce the quantity of milk they give to children?—After they are a year old.

with the given is elithered.—More they are a year with 2002. Supposely there was a fourly of an induct and 2002. Supposely there was a fourly of an induct and supposely the supposely of a supposely of a supposely to the color address week given by order that that the days—I also think they would then one quant for 2002. That is no eye, they would take are quant for \$100.00 think they would the one quant for \$100.00 think a quart for the induct, because we supply that ann.

2002. And you gay the allow both—Yer.

2002. And you gay the allow both—Yer.

2003. And you gay the allow both—Yer.

2004. The property of the property

to got at as whether the other three children would get another quart of milk-that is to say, two quarts of malk would be brought into that bound. In a labourer's bress that would be an impossibility. The wages would not persuit it.

7807. How much a quart me they paying?—Threepence halfpensy. "1809". How much a quart use they payong repose bullpran; they pay one penny for the quart van apply!—A penny for the pile. In extreme cases the dector has power to order a quart for a penny. 1800. In a general way, how much do they pay for the quart of milk that you supply!—In some cases were also a way some througher, and a worse come transpared as were come transpared.

a printy and in some cones twogener, a printy got is some eases twopenee, 1960. Supposing one put it at threeballycace, that would be frequence for the two quarts mean into that for the children, and you think that a labourer carning that they spend so much money on mulk after the shills

has goes a year.

780. That is a goed deal a matter of clusarion.

801. That is a goed deal a matter of clusarion.

801 tolking law of the possibility. Supposing the
were sufficiently educated as to the food value of refle-Seponent they were sufficiently observed as to the food value of nells, and recognised the impositone of giving unifit to every child up to the age of fourteen or fifteen years, can they affect it, do you think?—I don't think they could effect to gave that much.

efficiel to give that muou.

1962. If the lisbouten had four children, and the proce of the milk cost 3/- a week, and the inhances gets 16/- a week, that would be 12/- over; and he has to pay, and the same that would have 9/-. Could be set to be a week, that would be 12/- over; and he nas to pay, perhaps, 8/- far the haus; that would leave 9/. Orable a tabourse, under these circumstances, affect to pay 8/- a work for milk!—He could not affect that empount. 7963. In some hudgets for the keeping of working-1943. In some hadgets for the keeping of working-class fearithes I usifies that there is nothing left over for clothes?—It is hard to calculate the quantity of sails going not these little house. They key is in personwellis and in halformaymaths.

prints werths one in manyerarymetrs.
7895. At the price of milk in Belfast, supposing they
know the food value of it, and wished to give as much
milk as possible, you do not think they could afford
by get a sufficient supply \$\infty\$ more yould not. 7865. And that anything that would put up the price of mile would affect them?-Yes 7866. If they could get a milk food cheeper than the posters milk food it would help them?—Yes, 1967. For instance, do they use separated mulk?-

1868. Do you know the price of separated milk?— A pampy farthing and threeholdernes a quart. 1860. Is that milk separated by scottifugel force?—

7870. It is not skim unlk?-No. 9871. That would be 54, a gallon for separated milk?

7872. Separated milk could be delivered in the streets WHI. Separases mus could be delivered in the stretch of Belfast in Sight, from servaces in Andrean. Do you think that would be good value, if the people book separated milk to help the mous grows challens. There are score people who got it, but I find them in met a great approximation of it.

own so use no convenient—xee, and it is not pleasent to teste in secon cases. 2874. Do you consider yourself that it has much feed valor—have you much exponence of feeling on 187—I have noon. 7875. And you have no opinion so to its food value?

1876. The condensed milk that is used by these people is get whole milk as a rule?-Not machine shim milk.

7877. Is it proceedly intellink on the outside?—Yes. 1890. Do you think they enderstand what separahed milk is?—I don't think they consider in many cases. 1880. Because some other witnesses stated that the

people don't understand, and that it would be better if they put condensed slean wilk on the tan 9—I think it would be a cond alon. he a good idea. That, I suppose, is sold very absoply?-A vest. That. 7982. And how much so-colled milk do they make out of that "-I have no positive superionee

7884. They take out a specuful and mix it up without any reference as to what the food webs: would be— just from the appearance?—Yes.

7886. If it did not look blue it would be all right?— Yes. 1886, I suppose they would make the tra go a long 1888. I suppose they would make the tin ge a long-tery 8—Yes.
1886. And I suppose they slee like this milk becomes it does not po had—Yes, it does not go had.
1888. The CRUMENY—Yes have some people under your description where the wayes coming into the pour description where the wayes coming into the manufact of the row 26% to 26% a well, owing to manufact these words have milk fee by a group of hillion?

would those people buy milt for the growing children?

-Thry would. -rany votals.

7880, And do (bc) 2-Yes.

7880, The resulting would they take sate their ranks make the party of the baby perion of the family.—Well, I find it is those greated with to get a quart of mills in the morning for a waye of that

get a quast of malls in the morning for a wage of these height and a grid at units, or pershaps a quart. 1891. So that would industs that they do superclass the whote of milk as a food, and where they by up less it is become of frameoid modifity to buy?—Yes. 1892. See Theorem; Wesselm 1892.—Yes. 1892. See Theorem; Wesselm 1892.—Condition of the third face has been an educational ribed produced or the face has been an educational ribed produced or No. 1892. 7883. Do you find they take a giruber interest 9—Yes, in the life of the beby, 7894. And do they, when they take amongst their

amphours, discuss the value of milk as a feed?-They do, to a serious extens.

THOS. Do you think that they are more oritical
braveds wilk now than they were twelve meeths ago? broads milk now than easy wore every months ago:

—Yes, become they draw my alteration to peer milk.

Some of the mm site and that the milk they were

Some of the mm site and that the milit king were printer was no good, increasing "Top, erry moch." 1995. It that feeling the conduct "Top, erry moch." 1995. It that feeling the comments have present the case of the conductive the Comments have present to the conductive the comments have present the case of the surface that the world was de-tected in the conductive that the conductive that the conductive the conductive that the conductive that that it would tend in the dimension. If for the conduc-tive the conductive that the conductive that the tend is not the conductive that the same that the world make the likely on military the present the world of the conductive that the n working classes.

1868. What I want to know is, if there was a certain

1868. What I want be know is, if there was a certain amount at slockness in imposing penalties of enther-tim, do you think that because you do you can the worst effects of that stechants—I about that it would lety. In the stand districts and competen areas I find weekled with, and in the arty and archite! I fold milk with treater degrees, and as high as a taken if

2809. Bun't you think that people will say that there are other fasters that come rate the case of the babies oftending the Believi Circle then the condition of the stirnding the isence three then my condition or null—it is not merely the change of milk?—Yes, 7900. You will find belies having excellent milk who are not theiring?—That is so, but I are talking of cases that had had and insufficient milk, and then the Numer Buayran,-15th February, 1912.

7801. You had other factors, too, there was greater care of the behing? In some coses 7MQ. You know coses where it was the charges a the milk that effected the improvement in the infants? -Yes. In the majority of the cases the only change was in the quality of the milk. was in the quarry or one man.

7903. The buby improved when the milk was
changed—Yes.

7904. With regard to the sale of separated milk for feeding, which has been recommunical

feeding, which has been recommended by some of the wisteries, by the hir is appeared mills was sold subsettles of the property of the property of the subset of the property o semerated radk for the bables.

7006. Would you be in fewour of such name oblides: so feel being compelled to attend Balant' Clubs weekley 7907. You don't think that the ordinary Inspector found a baby getting outreed water in

one inspect them often enough to see that they are not subjected to any injurees treatment?-It is det. bottle, and the surre giving the milk to her own child, so that if you got a supply of separated milk you will have to many armine that sort of those. There recent who nouse better want to make as large a prefit they are, and they will stop at nothing, as we find too often to the dornment of babies, and to the goal Took While you think separated milk neight be mai-able with other foods for older children, you think the rick to very great?—In that respect, year 7909, The CHARREST ,—There is no du district, I trke it, in Beliast where mile is not procumble for manup?

—Not in my experience. Milk of some quality or

7910. The CHARMAN,-You ere a member of the Vermany potentials—ted are a member of the Vermany potentials potentials. The potentials are vertically supported and the Largest Urban Distinct Council?—I do, and also the Rarel Distincts of Moirs and Largest Park (1998). The Council of the Coun Will. Will you tell on exactly what pro-mon as many by three Local Authorities for the realizonment of the provisions of the Dalries and Cow Sheds Orders—All the three Local Authorities, the Meirs and Lungan Rurst Districts, see the Lungan Urban Datriet, have

aley Inspectors.
Titll, Who are not professional men -No, and I VIEZ. Who are not processed as a superinded them.

VIEZ. What number of cows would be kept in these distincts over which you have principlines—About 1,600 cows. In Lungen these are 25% in Moirs Rural Distinct a bittle over 200, and in Lungen Rural Distinct. a little less than 300. 7915. Are you including the entire number of cows in the district or the cows whose milk is sold for public use?—I am including the cows in the regarded

rest only.

7916. As regards the indicts of the people—are the the purple, generally speaking, see clean in their habits. Of owner, there are exceptions. 7917. And the application of the provisions of the Order has tended to develop habits of chemitizons.

amongst them?—Yes, there is a very great improve-ment in the condition of the duiries, and in the condi-tion of the milk wassels and in the condition of the people.

Title Have presentious been instituted for brenches
of the pocusious of the Order?—Yes, particularly in
the Urban District. The Urban District Commit is

very anxious, instead, to carry out the Order well. Before the Order was instituted the drines of Lerron. 7919. To what would you attribute that—are the

members of the local Countils to whose you refer themselves engaged in the trade-7—8 few of them serve engaged in the trade, but I think the Burl holdes being mostly engaged of farmers, do not take the serve interest in auditory matters as members of as Urben Dutysia Council. In fast some of them think is a wholly unconcessny that them should. So wholly unnecessary that there should be this supervision at all. 7920. Have you any reason to complem of went of co-operation on the part of the magnifical authorities when prosecutions are implicited?—No. I think the

when processions are manufactured, when they magisterial beach is auxious to inflict fines when they magisterial beach is auxious to inflict fines when they engotices that the case has been perpetly proven. The only thing is, of course, sometimes there is a complaint

7921. Are they commerceate, in your opinion, with the officees that are committed?-When the render is brought up a sooms time, I think the first are not 7022. Have you say trouble with tubeccolosis in

Mr. Jone A. Tronroos, p.s.c.v.s., c.r., examined your districts?-Not very much. In connection with the three Local Authorities, I have had consider to recommend one cow with a tuberculous udder for

shoughter.
7888. Do you make periodical imagestion of the confor clinical under symptoms?-I do. 7926. And in your experience there was only

7925. What happened to that particular cow?-I recommended that the test should be applied, and the cedimary re-action having taken place, the Local Authority had ber destroyed, and paid compounting 90 the owner.

93% And the Local Authority recognized that the
was the proper thing to do m the interest of the public

7927. With regard to the question of compensation do you think it is a wise thing to limit it to glo?—In many cases I think it would be right to limit it to glo, and so far as I know under the Poblo Hoshi

7928. As the Order stands at present there is no the person awarding the compensation to give the fir market value of the mirmal that was slaughtered?— Yes. Do. 7929. Do. you think it would also lead to meet

frequent and frequent and prompt co-operation on the part of dairy owners, if they were satisfied that they would soffer no financial loss as a regult of the elaurence of

7900. That is exactly the connection in which I deal the operation. That would remain the application solid the question. That would reader the application of this portion of the Order less difficult than it is if notice of any symptom that would lead to appenies notice of any tymptom that would have to imprine and dawn your attention to MTD-Text. I should say in connection with the Lurgan Urban District that the shirty owners are supposed to—in fact they must-raport cases of rickness innough their cover imme-

7831. Is that condition fairly conserved.
Town. It does not obtain in the country.
Take Is any milk sort to from your It that condition fairly observed?—It is in the 9888. Is any milk sent to from your district into Belfast?—Only from two district, as far as I know. 7853. The Local Authority of Belfast seems to be rather decisions of having power to go out and impor-tion source of their milk supply. Do you think the it a reasonable claim to make?—I so not think it is where the Lood Authorities themselves have appeinted Veterinery Imposfors. I know that the Daty Impostor of Belfost, who is a laveaus, his visited district on two or three occasions, and I do not threak it is good enough for the Corporation of

do not small in a good energia for the temperature beliefs to seed a layman to supervise the work of a Veterinary Sungeon.

784. Sat the Public Health Committee have also a smalleful Veterinary Surgeon, in their needes. World qualified Veterinary Surgeon in their service. you have any objection to his coming out to the district in which you have jurisdiction, to make an impaction in case of suspicion as to the milk appely?-I would

Mr. Jones A. TROMPRON.-15th Privatory, 1912.

7845. You think it is unessociable to have the work of a predissocial main improved by a layrant "Vale. 1968. I quick objection, and you do not thank any large that the property of the design of the prolated and the design of the design of the conlated and the design of the same design of with by a Central Authority. 1967. I am leading up to this. You are quite aware

1907. I am isoting up to date. You are Queen when of the different Assistance to exclose the regulations, there might be some wint of undirectory in the resume in which the posturious run oriented and times there in 1908. And you think in would be more desirable that these should be control condection used to some undiversely of admirated but 7-10s, and I do not controlled to the controlled to the controlled 2303, Are my one begin in your distint subjected to

the following heat?—Yes, a good many of sheen. I have subjected a good many of them for the season of the season o

Fig. 1 With regard to that test, what is pour view, because we have Jak a good deal of conflicting evidence to bit whittings—because the last part of the second of the se

We wished or you the part vertical confidence in remission the same that is not had been the believes remission the same that is not had been the believes remission the same that the believes the beli

incertifield. There is pure title thing about the test in Lawrence owner of thebrevilous—means are when it is not accessary to apply the best—the sen fails, the incertainty of the best of the control o

consideably.

7948. Is now thus also a fact, that if the deliceable, and if the cut as upplied, may, this mark with a recolous, and if the some sain is explain within a very limited in the some sain is explained within a very limited pointed, say in eight or ten days, you might here no 7949. So that it compliants considerable may are added absorbin from the results of the testit—Tes, unfortunately it is not possible to make one to get remainly in the results of the testite. The results of tent as the state of this limit. Many people who have sattle obligate than to be test it interested in they find they considered have no be test it interested in they find they

output them to the test flarmedown if they find they use going to be stated.

2850. In order to seesare that the result may be negative when the offseed test in bring applied?—Tee., and 2851. Have you known asses of that line?—Tee, and I think the tubercular norum should not be parmitted to be used by others than prefectional mus on that

7932. If the use of it were forbloben to non-professional people, it might not obvious the difficulty with which we are confronted, because the professional man might be employed to apply the tost, and be might do it, having no benefolog that the owners had on othersto motive of the best of the mind?—Tex. 7959. De you find that the duty-hospits are milling

to cooperate with you and other empade in conving out this Order generally?—The pend supports of them ass. They find it of adventure to themselves. 705s Although at the leaguning they night have been distinctioned to comply with the Order, they now recognise that the Order only provides for the entrying out of the humanes selectifically, and that it is to before over indirect to exceptly with 201—21es.

7000. Have you considered the question of locasting sear-keepers, and would you be in favour of 189—I move considered that question.

7000. You would profite not offering any opinion on

eew-keepers, and would you be in involve to involve considered that question.

The considered that question is a superior considered that the considered that the considered the considered that the considered to the distinct in which you are emptyed have every means to be satisfied that they are guiting milk that is produced under clean not healthy ound.

Policy, And you have no suggestion to make which which and he higher standed of milk being produced than that which to write the at the present thirdman that which to write the at the present thirdlearn majorization is required than what is given at the 
present time.

245, form in your own Barel Districts?—Xou—that 
to tare, in the case of the tree Basel Districts there.

in cell our dairy Empirica—ene for a sell district.

"Oble, De they compains a long artis"—They do,
and it is quite impossible for size dairy Empirica,
and it is quite impossible for size dairy Empirica,
perly supervise and get second the districts. I find
a number of people insegulated rapplying mills, and
a number of people insegulated rapplying mills, and
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deed by the conviction against a number of people
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70b. It is postly consist take man a number of people are weeding milk in a district, who ore unregistered, the supervised in not as complete as it should be Y-Xeo.
70b. It is entire unfair to silesy these people to complet with others who have registered, and who are calcivouring to comply with the conditions imposed by the Ondo T-Xeo; I think it as very unfair. That

in what I complain of.

7000. With regard to the cows, have you may infoo
mation that would enable you to say whether or no
the yield of milk from cows is measuring or distribute
any within your recollections. 1—Well, I think the yield
in my district continues to be pretty well up to th
overmor. In cose or two almost where therecards not

is a larg district continues to be prestly well up to the sweeps. In case of two please where thereagh-land strength and the sweeps. In case of two please where thereagh-land shockwish is the strength and the s

7055. Do you not think that it would be desirable if that they should, in order to ascertin the yield?— Yes, but relly there are unes kept. 70%. There are maken perjudice applies it in a goot many manness; but in your own distoct I can

ress. Loses in rouser is perjuncte against it in a
good many readment, but in your own distored. I can
out the believe it would be such an advantage. In
the city it would not be of such concurse advantage,
because the convex are only kept for one militing period,
but with you they are kept over year differ year T-Vex.

TORS. And they go in for becoding 5—Tes.

TORS. And by to convex the records and nanotationly.

Which woll by nodying the records and assorbating to deep sufficient you could, it take it, improve the factor of the property of the property

good ose?—all have hard so.

7976. That, no dark words, the former who does not
be soon to be soon to be soon to be

7976. That, no dark words, the former who does not
be soon to be soon to be soon to be

7976. The Chartestan-Too down a general issued of

7977. Do you think it as a ware policy to limit the

1978. The you think it as a ware policy to limit the

1978. The you think it is a strength of the partners

2978. The you think it is a fainther that affects should

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2978. The you think it is destribed the you then you then

5775. Do you think it derivable that efforts should be asside to secure bulls whose darm had been good milkers—Yes.
5774. And by that means to try to improve the yield of milk from the delay core generally?—Yes.

Mr. Jones A. Trongraus. -- Lith February, 1912. 7975. You are furnitur with the scheme which has

Well, so for es it has good I think it is. 7977. He development must necessarily be very 7978. I do not complain of thet, because I think it

produced by deep-milking owes were officied for sale with a record of their dam's yield. Do you thrik that would be an item of intransi, and cas that would be likely to davelop the saleme?—I do not like to express an opinion. I have not considered the matter suffi-

an oursion. I have not considered the matter suffi-ciently to give an opinion.
7979k Is there may other view of the question that you would like to offer an opinion on with regard to the increasing of the milk supply?-I do not think so.

7290. Lady Evraum. Do you think that in order custors undermity of administration, a certail authority would be destrible?—I'm.
7081. To hive an importor appointed by the crottal "1981). To have an inspector appointed by the con-valuestly "-Yea. In much the some way as method inspector is appointed under the Medical Chalifes Art. The local Veterinary Inspectors should be upon

vised by one or more Veterinary Surgeons attached to the Local Obvernment Board. 7882. Does your County Agricultural Committee appears of premium balls being subjected to the toheroulin test?—Yes, an Armagh. 7886, Have you disease amount the cover in your locality?—No, only the admany sporadic affections. 7884. Have you lost cover through aboutou?—We have had a few cottooals.

7983. Have you had disease amouget your ealves?-Very 1981c.
Very 1981c.
Very 1981c.

Web. Under were streamed or 1st was magnetises convict in your locality?—I can searcely speak of a standard, but I find when a man is brought up toy some breach of the law like that he is usually fined. 7987. What standard of fat is required in the milk?

Three per sent.
These per sent.
7988. Do they editore to the legal standard?—Tinco ner sent. of fix. per sent, of fit.
7960. Because in some cases there has been some

50 minus — 14a.

7900. Do you consider that the hys-products of milk should be under the same regulations as the new milk?— New. I think we should go further with the new milk before we enter into the question of Sotter and cheese. I think it desimble that all about question.

7991. We had evidence that the goins of taker-osless are found in butter?—Yes. 7993. Do you accorded that the retailer in the milk trade should be liable for any defects in his milk as the first materies, and that he should recover damages from the vender; if the satular sells had or dirty milk,

from the venuer; if we sensier setse you or early that he abould be held liable for selling it, and that that he should be half inble for selling it, and their he throad them recover dumges from the param selling the milk to him to Yee, I think the returner about he half liable in the first instance. Year, Herr, you had much insule with typical carriers—Only one case about two years ago, The diphtherin—We had some orthreads of

to cerriers.
2008. You do not know that it was due to the milk? -As for us I know it was not traced to the milk in any of the cases. The typical was traced to the milk;

there was a organize.

2966. The Chambia. —A person who was organized in the handling of the milk and offering it for role?—Yes, a maid who had conveyed typical to this piece and

a fished who are accuracy typical to have purce and allow to other places.

7807. What happened in that perticular come—did the local authorities suggest to the vender that at would

tucker person—Yas. Uniteriousledy a great many people get infected by typholed in a vital gener by. The owner of the dury bisself get the disease, and has wide, I think, but I am not sure of their and the carrier breneff was becought into the overheams, red with the course of ber I do not know. I know she recasined there for a length of time.

7508. Was it discovered by the emplication of the Wirlal test-the fact that she was a carrier?-I do not know that the test was applied.
7999, Mr. Wilson,-Is the district over which -No. there are no oreamentee at all. 8000. And I see that you are of openou that there is a shortage of milk?—I do not thank there is, rooms. as a secretage of mintract do not think think as, noope, perhaps, last summer, which was on exceptional year. 8500. The people who require milk can get 4%-No. You mentioned just now that the Duny Inspectors had a difficulty in getting over the ground,

especially if they were old worn-out men?-Yes. so, but very often the people appointed passer the forder were the order of the people appointed passer the Order were the ordinary offices of the Sowni, such as

8005. So that in other words the respection

a deary in the country, to send out their votering inspector to make any yaquipes they liked. I should have no objection.

8007-8. But not only finding disease, but suspinious circumstances. Take the case of one of the purroous concept one of mrs pilotskers. The devenues many be that the typhod infection might come from one of three or four daintes in the contain distinct Without any further magnetized document, woull you not be of opinion that the Public Health Authority in the oily should be empowered to p

attention to the matter.

8002. Even with these elderly men?—The votoring 8010. You are spending of the veterinary learnestes !-8011. We had evidence here yestersky from a ericulate profession to the effect that in his opinion neither control of the city male nor the control of the

country supply-that neither of these slone would be a sufficient guarantee to politic health—that it would be necessary to have the city supply examined, and that the city mon should have power to go into the country arent—That is the feeling in Belfast, but I don't are what is to be gained by it. I think the votorinary inspector in charge of such district is quit as competent to make an examination of his dairy as say man that could be sent from Belfrat or any other so an man cannot do. I thing the veterinary inspector in the country is qualified to every out an examination as well as the city man. I don't are the difference. 8013; And when you come arrow evidence like this to you the desirability that male of that kind should be searched out by the city authority?-Well, yea, suppose if that really occurred the city authority should authority. Assuming that two-thirds of the soft authority of Bellias is from the country, I think the con-cition of things not much worse in the country that

8013. The local authority being largely composed of men in the dairy forming howness?—I can only speak 801. You have in your evidence stated that those very norm, the Burnal Council, consider that there is a recensity for this inspection at all?—You I said that some of Stem had to be forced to put the Order into

Mr. Jone A. Tesserson,-15th Petruary, 1912.

8015. Lady Evinano.-You must recognly that there is a large quartity of milk coming into Belfast from 8026. Mr. Witaco. Hi would not be from your own sies anyway?-No, there is no make from my district

country from an unregistered duty.

5077. In case the Eddined suborities sought power
to go carden their own area, you would not accorde
it entairy.—No, it they sent fully qualified men; the
I would take it had for an unrealisted runn to experies to give an opinion should durine or some compelents, SOR We bull evidence from one of these positions, and the evidence is conduct dishered that the consider delirate his inspected were in the most fitthy

contests daynes for respected were as all from the country be Sigh, It is not your district, but it is a rural district?

8020. You youngelf, in your priess of evidence, say that you comeder that contamination takes place not so much from discased over as from the dirty con-dition in which they are rept in some planes, from the conference of the control of the conference of 800. That is a summary of the confliction to be found in come cross?—Yes, that is empediated. 8022. Dr. Moosman — Do be million use ormalls or your directs—Only in two or three cases, in your directs—Only in two or three cases.

ne year marmed?—Only in two or turns class.

823. Are you in the ballit of many the tubesculin test?—Ton.

8234. What do you do with the cown that result?— Most of them so to the market-8028. You told us that on a second application of the tast the cow might not react?—She might not react.

8995. In come she renote the first time, and does not some in one are recent to the man, and it is the condition of that one at that particular time with regard to be ducarry. She may be a very redirectly onas of telec-

SO27. She may be a slight case?—You.

SCSE. Would the first that also did not reast on the
social econsion lead you to believe that also sould be
eased by centingous injections of tuberculan?—I have 8029. In she not in a state of impurity when she 

8050. Therefore it would be possible to keep that up? ... That is a lag question. 8331. You have never tried?-No. 8002. You think the proper treatment is to shoughter?

8000. Mr. O'Enrey.—How see these inspectors in the runal district appointed?—By the Bonel Cromelo

SOM. Without any qualifying conditions imposed by the medical profession?—Yes. SOG. Are they all votesionsy surgeons?—No. The dainy impector himself is usually the refreship officer of the district or the senitary officer, and he has the

8006. Then the veteriman improsor in supposed to supervise his work under the Order of 1909, so that there are two impretees who wask generally 5—Yes. 8007. The inspector of delaies and the veterinary impector - Yes. It is the duty of the veterinary inspector to look office the denies and exemine the na for an position.

8038. And the veteriousy inspector is appointed by
the local authority?—Yes.

8039. Do you think that it would tend to greater efficiency—I can not seying it is not officient—but that Agriculture of the tourge of rotomory surgery and Yes, I think the votermies imported, if they were appointed by a central nutbority, a sold be in a much

difficult for many veteriousy suspects, whose duty it is 804). In my past of the country (Limerick) is would account many many that the inspector would very often

8043. On the whole, you think it would be advisable that he vetremary imperior should be apprinted by a superior without mither than the Burel Petrier Control?—I have no doubt he would be in a very much yans or um only to term prosecutions. He is know-turned prosecuting his elients, but he cannot help it if he is doing his duty. The voteriously inspector is

dring nothing more or less. He would be in a much better position iff he was catively independent and appointed by a control subberity. SOAS. The CRAMMUS. — and it would occurrily lead to a more uniform and efficient simulativation?—Tes. 8044. Mr. O'Turne,-It would tend to get a standard ford throughout the country. I am sure there must be gost diversity of opinion as to the strained of obscultons in different parts of Ireland?—I have no

8045. That what might pass in Belinst we should look upon as to unificent flown in the South, or size term?

8080 Ser Syrway Weconoron-Yeu spoke of a tendency towards the reduction in the quantity of milk

that does not produce a good quality of unile 8068. The legal standard is three per cent. of fut?-

8049. Do you think that in your district there are

9250. Do you thrak there are many cown that would yield four per cent. "-There are a few. SOM. Would non any these are rece?-It depends 8052. In your own district?-I think in my own

SONA. You think three per cent, is a fair standard?-8054. There are certain comes whose an epsicone has

4033 Mr. O'Barry,-On the whole, you think that the milk supply in your district has not demessed? ... I think at has not.

SNAS. Become some people mention that the supply has charmonally depritued — I don't think so, but so my district there is no scentry of milk, coper, as I sold, during the past success, when the conditions were not very favourable to the predefined on size.

Mr. F. W. Postock exemined.

8007. The Chammar.—Tor are Clerk of the Urban District Council of Empon?—Yes, six. 8008. We have cheedy had from your veterinery to the surpose of carrying out the provisions

point upon which my Council test very strengty, for the simple reason that for years past they have done everything they possibly could to see that the dainer of fact, our regulations under the Act of 1896 were Over more stringent than the present Decrees Order. When a proscution takes piece for a lower standard of smit then what we held to be the standard the magnitudes don't inflirt such a fine as to prevent a repetition of the effects. In one case, where the

a of the effence. In one case, where the mails let was as low as 2,77, the fine was stendard of trans are two as are only 5/- and costs. 8000, And even if that offence should be repeated the fire for the second offence would not be increased willing twelve meaning the imagintation, amongst the milk was reduced to 2.74 per earl, of fit, dimined the case on the ground that they hold that the milk was sold to the inspector as it came from the now, although these were circumstances commented with the case from the country outside our urban district, and the milk to one can was found to be gramme and the gulk in the second can was found to be adulterated. Our the milk from the other out to the poorer people. the milk from the other one to the poorer peoper. xm anglatistic discussed for case, or the ground that the wift was told as if owns from the own.

\$600. They accepted the neutrinosy of the person who was emphasted in the secult of the prosoculton?—Yes.

\$600. The O'Thensy.—Who were the magistrates in that case—had they say interest in the trade?—No.

8068. The CHARGES.—What magniferial beach

edipdiested in that gaze—we don't want to know there names?—The colinnay Petty Sessions Comt magis-8064. None of them were engaged in the milk tende? 8005. And there was no suggestion that they were

8066. Still they trok what most be regarded as a to them?—Yes.

8067. And felled to help and meant the local authority Meer. And before to help and assuit the local authority in trying to scores that a pose and healthy supply of stills thould be available for all classes of the community—Yes. My Council spends about 34 in the £ on our rateable property in the sarrying out of the Dairies Order, and they had very strong views that when they spend so much money they easier that when they spend so much money they easier. 8.99 in two cases. The cases were dismissed, the defen-dance proving that the milk same from the conthis state. In the case I have already mentioned the milk contained 2.56 per cent of fat, and in another 2.74 per cent.; but both cases were discapated by the

magistrates.

8058. That must tend in the opposite direction to
what your Council would slower. I quite admit this it is extremely irritating that the magnification will not it is entremely irritating that the magnitudes will not apparently take an intelligent view of the situation presented to these, but at the same time, if your Countil, in consequence of the polary of the magni-tenter, abendoned proceedions allegather, is it not reasonable to fee then the studyed would become stiff held in law that if it can be proved that the milk is supplied as it same from the cow, no matter what rianderd is, that evidence to saccrated in preference

som But there was an additional element susperion in the case to which you referred, in view of the fact that page milk was discovered in one vessel to one class of the community and an inferior class our numbers officer and the inspector who took the ascepts. He followed the cust, and he found that milk was distributed to one class of sustances from one was distributed so one cause of sustainers from one can, and that milk was given to the poor from another

8070. And this evidence was brought before the magnetists?—Yes; that was, of course, only so clement 8071. It was an element of very grave suspinous...

Yes, 8072. The statement that you have now made was deposed to by the officer of your Control, who from his own documents now the particular pentition of followed—Yes, he actually near to document of \$608. And he ind reason that the hist his to was not necessitive to the state of the state

8074. Was that milk brought in from an outside arm 5-Yes. I may say that for the last three years we have hed no case of adultanties from samples have taken place in connection with ralls supplied from outside the orban district. We have eight dairyfrom outside the orban district. We have eight dairy-man living outside the orban district supplying milk to the town. The supply amounts to short one-third of our sulk supply. There are fifty distrymen bring to the own. All body are fifty dairymen bring of our suff supply. There are fifty dairymen bring issuic the fown; the smount of milk supplied by them is about two-thirds, or penaturally 300 galleto a day, and in not one of the sumples taken of the tour milk was there a presention for adulteration for three

9075. Are samples taken and subjected to analysis-regularly?—Yes. \$076. This would seem to support the view put-forward by the Public Health Committee of Belfins, that a distinct like years abouth have the right to seed their inspector into the outside areas for the purpose of assertations the conditions under which the milk is produced?—Under certain conditions, which, I

8697. I quite recognise that is would be distinctly untur to have the work of a professional man super-vised or entersied by a non-professional man. We defollowed, but what I do suggest is that it so resionable to sak that a qualified mon, an a district each as yours, should have the right to go into a district which should have the right to go then a unsured name amplifies poor town with milk, in order to assertion the conditions under which it is preduced?—I certainly agree with the reggettion, percented it is a qualified man that goes into the district. As a metter of fast, about a year ago we had a unifous outbreak of typhosi in an odjetning district. That was tened to the distribution of malk. It was a very serious outbreek, distribution or mass. It was a very sameus outsress, and there was a large number of deaths. My Council, knowing that some of the mile same from the adjoining Meeting that some or me must called some of a circular to abstract where this typhoid was, one's a circular to such of the two adjusting Buyal District Cornells, begging them to be more stirt in the carrying out of the Darmes Order. I need not tell you that such a circular was more or less resented by the Councils of the Barrise Order. I need not our you may not rectually was more or less resemble by the Connection consumed. Fortunsiely, our modical officer, who was also mossible officer of the algoritum distinct, had a sight to examine into the source of the typicals, there-fore there was no question of as coticide party coming in in that case. That is an example of what has latter place within the last eighteen menths in our own

narticular district. SUTS. And if it did not happen that the Medical SOTS. Add it it is one respect our new Assessment (effect of Health and a right to make the examination to which you refer the public boulth in your filtering would be accounty Impersion of were reskly in a very sorious sole for some time until it absted, became we aver simal that it would be conveyed to

the town through the milk espaly. 6079. Was the distribution of milk from a particular dirty suspected t. It was, and the dairy was closed up, but unfortunately the disease has great about a number of during before it had been detected, and

shose dairies were also closed up.

Mr. F. W. Pollace and StA February, 1912

1980. We prempt action taken by the Breal Connect — Yes.
1991. And yes news word from an invasion of the opportunity—We were prior avent.
1992. Mrs. O'Emme—Love any milk come up, then the Prior address, but there is from the Emmi deletted.
1993. Its there a Lengua Burst as well as a Longua Dyna direct. And the second to the connection of the Connection

inhabitant—We see poorly to Initiation documents;
Mi cor people are caugaged in this limit their sixtuation of the bedome, and the Oceanif is surroun to be a price supply of still;
SSE, Am was initiated that these people are getting on a presupply of still.—Be and the people of a surface supply of still.—Be supply st

2008. You see not entirely switsified that the supply of rathic is good enough?—We are not stainfield as all that we cannot inside on the supply being up to a good entacked. Once mild falls below three per cents of fat we are not stainfied. See the per cents 8899. You have a good many hand-looms in your distrible—Yes.

9805. Is that work its which women and obliften then perit. "The, and the mode peptistion.

8803. In its unbushly work for obliften S—It is slow work, but not withouthly.

8805. Does it not cottal a good deal of deat fring about."—Bet in wearing. The absorption is the about."—Bet in wearing. The absorption is the grant working. The order frings about. "Auto-it wearing." The order frings about. "Bet in order frings about."—These many discusses are only provided."—These many contracts of the state of the stat

900), yoursely marked on the prevention 1-tors of the returns a classes in previously, and that is one of the returns (902), Mr. O'Burne.—There are no creamzeful\*—No. section in troubled wide a good deal of one compared in the contract of the contract of

human birgot—That is a paint you will have to out on only only one bar. I read on this to express our opinion of it.

In opinion or it.

In opinion or it.

In opinion or it.

In opinion or it.

In office opinion of it.

In opinion of

Der Conreit fan cryk to paly lie ow'n differet far Making. Conzeil's september solve the Food and Dreigs Ads, cot also we have to pay the Occurly Assign for covering a set of the County Assign for every complex set in early or the covering and the County Assign for every the County Assign for every consistent of the County Assign for the County Assign for the County of the County Assign for the County of the County for the C

1997. Have you say then as to what the trend of opinion would be on this quotion—I down their opinion would be on this quotion—I down their or Conneil would be inclined to adopt useh a course. They have quite crough on beads. Besides, the milk supply as the town is not limited.

2008. The CRAINANS.—St. what proce is milk sold retail in Lungari?—In the connect time at two-poince. There was quart, said, in the writter at hirresponse. There was

ream in Largers—In the commer size as very conen quark, said in the unities at three-passes. There was a meeting of milk men some time sape to discuss the question of raining the price, but they were so divide that they did not do so. Then is a good deal of bothermik said in the district.

8029, Mr. O'Bring.—There are no overmarion?—No.

\_\_\_\_

Mr. Samue Banza, M.B.C.V.S., cuarrined.

SIO. The CREMICA,—You are a Varietiesty Improveuable the Newtownsch Errell Datiest Consents—Ten-18-06, As you see the first witness century from their boty. I detail be gift to have who is provious has been made by your Control for pointing the Datiest and Conselods Office Time Served—The Burn! District Control give every facility to entantic every summal. These are two Improvious.

Containing and entry intering to contain every latitude.

8(100, Then is what I was it is oget as—what staff have you got?—Two, a Dobry Importor and a Veteriary Regretter.

Berry State of the week with request to describation, and the condition of the new with request to describation, and the condition of the new-bryen and the resilication of the standard—Two, 8005. And you see no sharpe of the standard—Two, 1 generally takes a run round correspiling when I generally takes a run round correspiling when I was

commany mean our secural cereptality when I son 5506, Yea thy a general supervision when you are on the permisses — I so you district — There are 1,550 registered sown.

1,500 registered sown.

1,50

allow, it is sent in by cell—Not so much by rail a "and," restored to while in a devel bilinease of the part of the part of the part of the part of styl benefaty—Yes.

III. Is five, was security of rails in any part of the III. Is five, was security of rails in any part of the III. Is five, was security of the part of the III. It is supplement matter, but a five state and bod-right benome day, and the III. It is supplement that the saccepts— Since saids and bod-right benome day, and the III. It is supplementable to the saccepts— Since saids and bod-right benome day, and the state of the saccept and the saccepts— Since saids and bod-right benome day, and the state of the saccept and the saccept and state of the saccept and the saccept and state of the saccept and saccept and the saccept and saccept and the saccept and saccep

solor 8.11R. Raiber than carego with the Order the sensitive force farmer between the control of the sensitive states of the sensitive states of the sensitive state state of the sensitive state of the sensitive state of the sensi

year power classes sould safe got stall; to buy if they this the money?—Year; they used ordersted milk. In see and the control of with, a buby had cell ten m a bettle. 818. Does the two-thous four refer of the control of the control of the control. 818. Does the two-thous four refer of the control of the control of the control. 818. Does the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the 618. He was the control of the control of the control of the 618. He was the control of the control of the control of the 618. He was the control of the control of the control of the 618. He was the control of the control of the control of the 618. He was the control of the control of the control of the 618. He was the control of the contr

Still. Do you states it is a fastisting this some proper should be object to live in a fastist where it is expected in the still state of the still state of the expected in the still state of the still state of the cover regarders, and campalled to put these bytes into paper order. I would be in favour of granting them issues to put the tyrus take order. SIII. Would you extend the porturous of the Order to all convex of every, whether they said mile or math—

8122. And thereby avoid what has led to the restriction of the sale of milk?—From. 8133. And you would be in forour of a public sufficiently being ampowered to great them. a lean in order to get their tyres and precises find order. —Fro, under a certain valuation. 8134. You would not give leans indiscriminately?—

1875. Do you not think that it would be a pulseious core to derece public funds to provide suffix for a district like thin, where the subobjector ceases occurs to put secony?—I think it would, if some the control of the district of the control of the core of the cost whether or not the children heart to fee one old ten?—Ten.

Mr. SANTES BALLER,--156A February, 1912.

at Estimination Fromery, irrasite? Too say that the formers would not sell milk becomes they would have to regime their premises and he likelis to mappeden?—2 re-8193. And that the previsions of the Order might compel them to make a certain cognite expenditure to put their premises 100 proper condition?—Yes, and

compal from to make a contain coupital expenditure by part their premises into proper conditions. New, and some of them could not afford it. They say it would not pay them, as they only sold a quart of make a day. I told one furner who told me thus that it would say him to do no fer the acts of this own family who used the mail.

2020, This coupity of malls much have an injection

8138. This couplity of milk must have an injurious effect on the contributions of children reared in districts the times — Yes. 8530. Console Till, is used in these districts as a substitute?—Yes.

and a superior of the second s

legs for any length of tune 1–1 do not.

#328. Now, with regard to the mill-operations parts
in the distriction, have been such before your year.

I have been been been such before you will be not not been such before you will be not been you will be not will be now, and you when his place to will be not you will you will be now, and you when his place to will be now, and you with milk hely they.

destenyed, but one of the owners, and the sen of the center owners, how same did from thirreculous, stills. You make an enzamention of the cores from there to lines "—You stills. Do you examine the underst—Xes, of severy (\$19.) Here you found the underst affected with tainedst—Ouly in the two cases I mentioned where the attribute were sharphered and compressing gives.

tubereds\*—Only in the two cases I mentioned where the azimals were disaptered and compensation given. 8137. Did you apply the tubercular test previous to shoughter.—I did... 8138. With whet results\*—In very bad cases it does not years at all, but it is in easy to detect the automate

not reach at all, but if w may to detect the melmals by their prosent appearance.

8139. Have you found dampeteding results from the application of the tubercolin test in every case 7-30, 8109. Has your experience been that it is reliable as an indicating of the condition of the seminal 3-300.

on management of the constraint of the human — wherey every case in the carly singers.

8141. You account for the fuffure in this case by the fact that the animals were inegetly affected with tohercolouit?—Yes, over the whole system.

8142. And in these insistence the reaction is not one-

8142. And in these instances the reaction is not preposition 1.—No.
8143. Exit no design would arise as far as you could see, as you fell us the spiritude were obviously suffering from the discuss?—Yee.
8144. Were there swellings?—No.

8344. Were there swellings?—No. 8145. Coughing?—Yea. 8146. Wasting?—Yea, and the udders were unlarged, and they become greatly emegated in a very short

and they become greatly emergated in a very shortions, one of them. 8447. For paid compression 8—Tes 8148. With regard to the payment of compensation

do you think it is wise to invite the mun to the amount prescribed in the Order-2109-1. Unit 210 is very little for a new worth, perhaps, £21 or £22. 8189. And you would be in favour of withdrawing that limit and giving an option to the person assessing

81.99. And you would be in favour of withdrawing that finish end giving an option to the person assessing the compensation to coverine his own judgment and allow what was you had fulfy—Xes.
81.90. Do you think that would lead to a more immediate detection of suspected cown?—Yes.

8151. That is would induce the co-speration of the owners of the cores in directing year attention to animals that were magnisional—Yea. 8152. And they would probably be prevented from interactional techniques and the con-

8.022. And they would probably be prevented from climateriteiling teinfed milit—Yes. Several owners have some newest to see their own. They thought they might be suffering from tuberculosite of the wider. They are very curriful shout their cuttle. The poor man who keeps only one or two cown in the only one that I have treatle with.

\$153. The man who is sugaged largely in the tends believes that it is to his interest to cooperate with the local authority in currient out the receiviers of

teneries state in the mir measures to conference with the fixed authority in carrying out this providence of 815.4. And he gives you every resonable attackanes 815.5. And it is only with the small people who earry on a fitful fixed fast you have any diffusity?—Yor, the man with one, two, or three cows. 8156. And it you think these people supply a way the man with one, two, or three cows.

61.62. Doe by on think these people supply a vary useful want in the district in outplying milk to the shecoting population.—Ten. 51.07. Tank it would as a pily to deprive these of 81.07. Tank it would as a pily to deprive these of 81.07. Tank it would as a pily to deprive these of 81.07. Tank it would as a pily to deprive these are compared.—Zu.

are engaged?—You.

Size. In it for that also of people that you would suggest the local archerity should advance money is order to put their layers into proper contributo.—You.

Size. In the majority of malanous they would not be able to do it themselves?—No.

Size. And if they were engagefied to construct the

in able to on is seconstruct—exc.

3500. And if they were compelled to construct the
breast it would probably derive harm out of the tests
(Seconstruct Tests) of agree the district stay were
1000 than Tests of agree the district stay were
1000 than all the convictory of control in your
instruct registered?—Three might be set odd one selling
a quest of milds on abbouring man who are
1001.

a quart of relific to a behavior, man who as not al.

(808). But all mapped is a
(808). But all mapped is a
(808). But all mapped is a
(804). But a first a first a first a first a
(804). But a first a
(805). To what i enteror—1 is man in Hemmed, and
you withchise the licence, he can use the null otherwise for his corn family.

you within the license, he can use the milk officeyou within the license, he can use the milk officetion of the license of the license of the license of the 8.05. Yes, had you fault the danger to be own faculty—II this cows are cancinged, and it was soon that he was selling milk of diseased earthe, he send but use it. 8.007. Will you he good enough to recommer that werey filters! Distinct Occurd may not earry one the

mayodon in the same way in which it is done in your mopodon in the same way in which it is done in your confidence will establish a standard a standard of efficiency for itself, and in that way danger might arraw—Yes.

1616. You believe that if the proved provision are rigidly collected, and if topole supersisten is received by the offices appointed under registracker, that the work oxid is nefectively donal—I do.

work ovaid he effectively donab.—I do: 8109. But you don't think this literating would in any degree be halpful to you in correcting out the proviousne of the federe -I don't think it would. 8100. Do you see any other objection to the granting of literace other than the care you have rentjoend that the man may absordom the ente of sulfit and go much distributed.—No.

of Interferent data was to be only the sale of stilk and go into the duty tender.—No.

85TL Would you be in favour of interpoling on these sequent in the interferent data, or detree enabling, or detree enabling in the milk tender.—Year and the enabled of the sequent in the milk tender.—Year and the property of the sequent data of all the horizon was granted, day if all still a sequent data of the sequen

poisoning his own family, as a withess who came before us said he would?—No. 8874. Do you believe that all the byres that are not registered are necessarily in as unatean and incoming condition?—Not all, but some.

SUR. And it is in order to evoid the expense that would be supposed on them by energing out this conditions that are held down that they return to repisted?

—Yes. Some my that their own might be condemned as teheroclose, and that they would get no compensation.

SUR. I am rather melined to think that the stoke-

rated that you have put forward more would be a strong supersist in Secure of Impringing the conditions as those subground before own foundities and too subground the subground their own foundities and too subground.—Tensity. The substantiant that you have made that they object to have their animals straightness—do you thirtle that eligentum would had if they for shaderingly continue that they would get full compensation for the assumal daughtness—In world not an expensation of the samual daughtness—In world not support the samual the world studies. Settle And if that were more position is would studies. SSTR. Have you in your experience been able to deduce in my case that an outbreak of infertions disease was consequent on the malk supply?—No. as

leastr. as as I know.

8380. Has no opidemic of infectious disease arises
a year district tescuble to the milk supply?—No.
8381, And no segurice have been made in you
street in cause of suspenjon?—No. The medical officer weng with the dairy or the uterade. 8180. Has indection been traced to those having charge of the cowe?—Net as for as I know.

8188. I see you give, in the procis of your evidence in terberculosis - Yes.

Siki. That was the case of which you have already given us the history?—You. One of the men such that if the cow was destroyed it would break him, and I

told him it would be worse if he lest his wife or a member of his family. He shaughtered the two cows there and there. The other man also strughtered his 8185. Were both dunking the milk of the ducessed pare?—Yes.

Sign. That is a confirmation of the idea that it is desirable to extend the provisions of the Order to all now-keepers—Yes. SiS7. In this one valuable lives were sacraised from ignorance of the deaper that the owner were expound tarmedyes to Y-Xxx. 8188. Nothing could be more convincing as a motion Assuming would be more conferencing as a markler of proof as to the dauger ranking from consuming milk that was affected with tuberale booffits—Nos. \$180. Mr. Winsow.—Was the milk from those two desiries solid in Bellharth—No. \$110. What is the man of the district?—Conviord's

8191. The CRAIMSAN,-Were these cowe in such a

condition that the owner should be consequent of the fast that they were closed animals?—He thought, perhaps, they had a had liver, and he was always "decincing" them. size. He recognised the fact that they were discused?

510. These were snimals that could not be saved? \$204. Despite all'treatment in the future?-Yes.

SHE. Because they were extremely bed?—Yes.
SHE. Did you make a past excelves examination?—Yes, and the longs were stank to the side, and there \$297. Of course, it would be abound to think that arounds like that could yield bealthy milk?—They

STOR. Was there any evidence of tuberculoris of the older 2. There was, 8100. There was no need for the application of the soon. With record to the vield of wilk of the cown, 8801. Do you think the breeding of shortborns has

affect on the production of a heavy reals 80%. What subseme do you suggest would increase the yield of milk from what I might east the commercial cosmit—If they could give princis at shows for good milking strains I think it would do a lot of good. 8203. Are you furnifur with the scheme which the Departments has catchilabed for ibn persons of importing the milking strained—No; I have not

8204. It has been in operation for a couple of years Of source, no positival recoits are manifest from B yet, but I was sensees to know whether or not now-largues in your district would be willing to expected with the descriptors! In the development of a million;

8005. It is competent for the owner of any now that to of pool outformation, and what one would describe to a good breading arimal, no matter what her podigree might be, to apply for the registrature of that new, and then be to chipped to keep records of the rails

of that core, and if si reaches a certain standard of bulk and bother but, the produce of that cow, at a male, will be eligible for a promum 3—Nes. \$200. Would you think that would be a until 8207. No effort has been made to take it up in your 8308, I see pather surprised, because your County Covered the in Down sponerates in party all the

8200. But no effort has been made in connection with this scheme so far?—Not account the farmers. 9220. You are clearly of openion

scale to the teachy of opposition sees us to be a sharthern bulks, that are profused entirely for appearance and the production of beef, in not useful to the development of a military settinti—II is not. SSII. Would you think it a metal week if an offert was made in the direction of improving summed that would be more useful from the dury point of view? 8313. Ludy Evenano.—Are all the dairnes in your district supplying milk to Beliest registered?—Yes, all

\$228. Are there many premium bells to your district? —I think about five.

\$214. Are they obliged to be subjected to the tubercolin test by your County Committee of Agriculture?— SOLO. Does much milk come from your district by twin to Bellast?—Not much; causty all by road. SOLO. Have you many goats in your district?—In some parts of it. SOLY. Does Endy Dunketh law in your district?—

8238. She has a lerge number of goats?—Yes. 8330. Do you think they are good things?—Yes, in the poorer districts they are very good.

milk in the summer rogaths. soll. Do you think that the goats she has are making as improvement on the goats in the country "-Yes, in

5022. Are they being scattered about County Down, or are they kept near her own pleas?—Nearly all about 8223. Do the formers sell milk to their own labourers trees distinct?—No. They are not allowed to sell In your district?—No.

8224, I think that is rather a desputed point whether they may sell to their labourers or not. I think the supply or sell sulk unless they are registered. S2A. The CRAMMENT—It is a quasition of interpe-tation rither than the works of the Article. Lefy Evanton—The Local Government Board wit-ness and that he do not the to expens any positive optimes on the point, but that he constitued that he

riginary would be allowed to do so, but you find that the they don't do 30?—In seen distints they do.

\$220. Is the milk supplied to the behavers by increas in your distinct on part of their wages?—Some alk. 8027. Do you consider that all hys-products of milk such as butter, chacae, butternelle, three male and amazend male, ought to be under the same provision the new milk?—Yes. \$220. Do you think it would tend to better inspec-tion and a man affected correlate out of the Onley of

m inspector were appeared by a certain subject such as the Department of Agraection or the Local Government Benefit — Far, if the Local Government Benefit — Far, if the Local Government Benefit would appear in Impacto to go record off the destricts and see that we were all doing over duty, if think that would be right.

822). Mr. Witzen.—You recommend extending this Order to all people who keep corn regardless of celling milk?—Yes. 8236. Hove you been able to form only estimate of the exten amount of work involved in applying the

order all over the scentry?—No.

8831. It would be largely increase?—Yes.

8832. On the other hand, it might be worth the money?—I believe it would be worth the money?— 2 K 3

Mr. Santus Battan -- 18th February, 1912.

\$258. In your own area you are the only protectional electroner suggest appearated by the local authority?-8504. And you are responsible for the inspection of 1,890 detries No-175 dairies and 1,000 sows.

8235. You could get over there and expetilly frence: them?—acc. Are you troubled with Briffast people going out to visit you?—Seems of the farmers whose places I inspect ask me, "Am I how to you er to the Briffast Inspector?" also were the property of the Briffast Inspector?" also were the property of the

sour. What is the o'diffuse of your Local Authority on that question—they objected to Belfast officials soing out?—Yes.

8538. And do they still object?-They do. Council give us every facility—the Council has two Inspectors appointed under me 8250. And in your opinion is the claim of the Bellius

-30. I am not speaking of Belfast particularly, but any his city to go outside their own area in order of any hig city to go outside their own to mapped the source of food supply?-When the Burnl Council sive every facility and don't taink it is right on the port of an impeter from an outside district to come in. There should be one or two men to inspect the districts to see that we do

our duty.

821. We had figures given in evidence that thirty
or more samples of milt were found to be grossly consaminated with measure?—Yes.

8142. And only nine of these samples were of milk and 2. And only once of these samples were of milk produced lastic the city, and twanty-three were samples of milk produced in the country. Would you not consider that the Pubbs Health Authority in such city area neglected their duty if they did not go into poetty well looked after as it is in the country.

8843. And yet there is this discrepancy regarding the samples taken in the city of milk conduced in and in the outside areas .- There are road sancias in my senset.

\$244. I am reference to the had delines.\(^\*\)—There are few of them sending milk to Reliast. No milk comes from the had delines to Baltast, as the people owning those delines have only a few cover and they sell the milk in the district.

8245. I sm not saying that the Belfast people shruid SSM. I am not saying test the richted people support
have authority to interfere with your inspection, but
what I suggest in that they abould be given power in
the event of finding a had numple of milk to trace it
to where it come from?—I think that would be might. 8286. Are there many Union colleges in voor spea?-

Aged many case country as security at the cet-tages has inflatened the relationship between the labourer and the fermar in the matter of the milk supply?—No.

8368. We have had a good feel of ovidence that when a labourer went into the Union orthogon, the farmer is labourer with into one cause of the supplying him with mills 5— like in no responsibility for supplying him with mills 5— If he leaves the foreser the names does not give him

8089. That is to say that the creetion of these cot-tages in certain districts may have decreased the sup-ply of milk evaluable for the labouring man indurestly, but stone the lass of contributy—New. 8280. Are you aware that the Board of Works lend money to farmous?—Yes.

8221. We saled a Board of Works witness, who gave relidence before the Commission, whether they were

evisions before no occurrances, whether may were wiffing to advance loans for the reconstruction of buildings under this Order and he cold, "yes," and that they were propered to loose an unlimited amount of moonly under their countries. On you know if this country under their countries. s windy known?—No.

8202. Because that would replace the suggestion that SEGG. Honouse 1004 would replace the suggestion that money whealed be grained, seeing that there is a State authority abredly in existence that does then?—Tec. \$600. The Crammax.—Do you think that the core-keeper of whem you spake sould give meeting to the Bound of Works for a loon of \$300.—It don't think they

could, but less would do.

8254. Thirty pounds is the smallest sum that the

cook, manny prounds is the semillest some that the Board of Works will advance, and for that reman I am arraid it would not deal with the case you have in your raind?—I don't think me, settle, Mr. Winson.—You were only refurring to vary steell byset?—Test.

6256. The CRAIMERS,-And there are the worst as a nie ?— žee, 6007. Mr. Winsaw.— Are these people in your district the see icorping milk records?— Not many. 8008. It is not prevalent?—No. Some land stowards do, and also Lady Daylouth. 10259. In your procis of evidence you state that yo

are of opinion that tuberralous bes greatly abated?

SIGO. So far as you are presently aware?—Yes. SGGI. The Belfist figures that we had yesterisy are recisely the opposite?—Yes. The figures we had were that the number of cove suffering from tobecoultein that were alongatered in the abotton have about trobled?-That is not as with us, and in the report of the Union in regars to burnan beings the figures desling with toherculous shows a document. In 1005 these were E1 cases though the control of the control of the tuberculosis; in 1907, 119; in 1908, 123; in 1909, 104; tuberculosis; in 1907, 119; in 1908, 123; in 1909, 104;

 tuberrelosis; in 1907, 119; in 1908, 123; in 1909, 1906;
 in 1920, 85; and in 1911, for sine mentles, 66, 8083, The Character,—Are those deaths of horses astra. The CRAHERRAD-beings X—YE., Sible, Dr. Mectanaxa—What district in this return Sible, Dr. Mectanaxa—What district is the death rate. Sible, Mr. Window.—Gan you give any suggestion from your own knowledge as to why the Editor figures— two-th he as high. Is it the hatel of people in the country of the country of the city. sbuttoir?-They sell to some other man, and he takes

shallow?—They say to some other man, and as many them to some other park. 620%. So that if that custom is prevalent in other parts of the country it may explice the farcesse in the 3-diset figures and the decrease in the number diseplated in the country shallows. He your own?— diseplated in the country shallows. He your own?—

8267. In it the custom in your district for the delaycan be sufficient our control of the control of the can be controlled the can be sufficient on the can be sufficient or t of a very good sow.

S288. It has been suggested that that has a very had effect upon the cow population of the country. and that a scheme might be derived whereby the comand that a scorete inger or certain macroy to looper would be encouraged to keep on a proportion of his best cows. World you appeare of that?—Tex. There are some also cows fattened off and killed.

S200. And that you consider objectionable in the in-iercut of the bosiness?—Yea.

STO. Here was formed any opinion about the possi-lating the open formed any opinion about the possi-lating of dividing the premium system—a dairy bull is a single stated and a beet bull in a best producting 8271. You consider that would be workship?—Yes. 8272. Dr. Moorman,—What is the cost of milk in

your district? ... 3d, a quart all the year round.

8273. The labouters in those Union colleges that you speke of, do they get a supply of milks—Yes, from a duiry close boude them, or some get it from

S274. None of them keep come!—No. S274. None of them keep come!—No.

riets.

8376. In the Union cottages?—Yes.

8377. What do you do with the cow that ye acts?—

10. who mis of the mild. Have her isolated and stop the sale of the milk. 80%. What ultimately becomes of her?—Semotimes she is and and some away to other parts

8279. Do you over make any attempt to ours her?-8280. A young onw?-In one, two or three years of

8283. Do you negrist in intesting telegraphy 3... You 8382. Have these been successful?-We have bud some very good results. 6294. Is there any provision at this end for cleaning the case going book?-Not that I know of.

83%. They don't bring beek any wesh or anything of that sert in the care?-No. 8886. Do the dalrymen in your district feed cowe at all on grains or weak 5-No. 8287. And they don't bring wash in the misk ean?-

8388. You are quite sure of that?-Yes, 8280. In any of the milk sent in by team?-I think know two parties who send still by train from my

Mr. Sasuzz Banan.—18th February, 1913.

\$200. Do you know if they send the milk in scaled ounsy—The cases are not scaled, but they have two left on them, and there is a look on most of the cases, \$200. These are well booked after, I supposed—Xto sens, these are well bosted error, I reppose?—Yee, and their once slavnys seem need and claim and tidy. 8992. Do the care book as if they were very much knocked about by the rullway company?—Scenetimes. When one is used for a length of time is tooks as if it when one is used not a temper or time to those as it is as been knowned shout. 8283, What class of labourer is getting cottages in our district—are they approxitered labourers—Montly.

There might be some shormskers or testesmen as well. aged, I think you said that these mon companying the Union colleges are very poor?—A good many of 8866, They are mostly agricultural labourers 8-8200. There is a considerable difficulty about their

getting miR?—In some districts 8097. Where they are not living on the form where they are working?- Yes. 8386. How much does the agricultural labourer corn? About 16a, a week on an average.

\$000. What rent do they pay—a shifting a week?— I don't think so much, I am not sure.

I den't think to much, I can not sue, \$601. Do they get an note of I and I—Some of them; they were cerly pointing ball in note, but they are gotting an are held; \$600. They are gitting 16s, a week wagent—Yank would be about the everoge. \$600. Do buy get entiting also?—Some farmers

8004. And feel of any seet?-I don't think so. 6325. Do they burn tool now?-It is almost en-

8906. These perioultoral labourers are better off than m my district in the South, but I rather gather from

give them event mile and hostermile as wall.

The Courseau,-He said that in there or four disare consisted.—Its was ten in more of four teries it was in proceeding to get milk to buy. It was a question of makelity to procure and not inability to processe, which is a still more difficult question to deal with. 8307. Sir Strauger Woosserter.—What do they do, Mr. Bellin, with the culves in your district—do they sell them immediately after their birth?—Some of them run the culve. Some of them milk their cows for

side form her out on grose. the shutteir in Belfast?-No. There a only a shunghtered in our district at all.

only an interphateral in one districts on all. 8252. Here year eyelser ongowiere, Mr. Bonfin, to 8252. Here year eyelser ongowiere, Mr. Bonfin, to 8252. Here year eyelser on the same of opper bright to them?—I do not think I have applying more as all. I blanch for exit of a belower's 650. I think I have seen to be a second of the second

ing part of the price and the Burst Council paying balance out of the rates or by a grant from the I surv! I think it would. 8312. Do you think it is an ourconoughle condition to expect people to live and bring up femilies in districts in which milk is not provestable for manor?—I do. 8313. And you think some effect ought to be made by some authority, whether local or State, to provide for such a state of thinm?—I do, and there are some of the labourers who would be putte willing and able to

8314. The hardship is greater there because the oblidran are starred owing to the mability of their parents to prouze milks—Yes.

## Mr. Sawrup, P. Greaven, M.R.S.L., exempland, of a cosm beats has child the Impactor for Greeky to Children takes aution, but if their men wishes be our

8315, The Charman—You are Darry Inspector under the Ranger Urban District, and the Santtery Sub-officer?—You. 6816. Have you got a Voterinery Inspector in your listnot?—The last witness, Mr. Bulle, is my Veterinery Inspector.

8517. Has your Council put into force the provisions of the Order in its own area?—My Council had adopted the regulations governing detries and cowabods milloshops in 1906.

INSISSOPS IN 1900.

INTIR, Belgre the last Order was promulgated?—You.

INTIP. So you put your begoe into order before the
central authority took sation?—You, that is so. 8223. And have you resers to be satisfied with the dairies that exist at the present time within your SHIL. You think they are in a condition to produce wilk in a alcanty and hygicuic condition?—Yee, we

\$512. Is any portion of your nulk supply derived from an opinion district?—Only contribut of the mile conserned in the Bango Urkan Ebstrit is produced within the Urkan Estrict, the recentume tre-thinds being applied from the auromoting read district of Newtomoreis. There are twenty-even danies sending collection of the second of the sec

milk into Bangor. 8333. Bangor is residential?-Yes. 8024. With regard to the working classes in that street, have they any difficulty in securing mile?—

None whatever. 8325. There is milk available for all that have money to buy M?-Xes-83%. And is the value of milk as a food for infants and children realised by the mothers of the humbler classes?-- Yes, as for an I know.

8827. You don't see, in the course of your inspection wasted and emacisted babies, that don't soom to be 838. Would you see any objection to the licensing of con-acceptación. I think that all persons keeping a cow should be registered and licensed. For instance,

an emeasted now, suffering from tobercolous, And you would not second him that privilege? I have known a case of a milkman coming in from a registered darry into Bongoe and whose hard was

farmers along the road who kept a new which was not reserved. Cases Wile that never. Then you have maperted. maperson. Cases first that occur. Then you have uncerupidous dealers who will buy conveniently from biberedoods, and will get unsampalous multi-rendom to all the milk. I have known that to occur. 8300. That man has a registered dairy, and he lives in a distinct where the promisers of the Order serare teken in order to previous pure milk, and he sells in the name of pure milk milk that is contamousted?

8331. What remedy would you suggest 8—I would aggest that every cow-keeper be regardered and suggest that every suggest that every cow-keeper he registere linewed, the same as the man keeping a dog. 8331. Or a man keeping a publishouse?—Tos. 8333, Would you take into the purview of hocosing subbanky the character of the man. I mentally who shall been carrying on an illicit trade in the past, and trying to evade the law, would you give the local authority power to withhold a lineaus

from him?—I would undoubtedly take into considera-tion the churacter of the applicant for the lineau. 6884. Have you any resion to complain of the manner in which the milk is distributed from the contribe areas in your district?—Yes. I do not approve of the milk-floats. These are of a defective design, or the mine-norm. Lines us of a conserve steps, immersuch as the tops on the case are in close proximity to the boots of the milk driver, and liable in the distincts to come into boush with his boot, with the result that the dirt is sumped off the boots by the sutlet of the tap.

5335. And the person who gets the next supply has the headt of whatever is situated to the book of the driver?—Yes.

Mr Samuel T. Countre-16th February, 1922.

8006. Are there milicohope in your district?--Only about five.

8337. Is it from these the poerer people of the district part their copyly?—Some of them. The poer people in my district do not seem to have any particular.

supply.

RES. The domand from there is fiftel?—Yes. They seem to get it from the nearest cork.

8300. One of the difficulties with regard to the poorer espie is that they may be able to purchase milk in the beginning of the week, but towards the end of the

who was requiring him would have an unsell carriplact. — We have very the people in Range in a residential distinct. Of course, your postton is been scare that no other deficients, portressingly in the same parts of Belfank. Do you think the milk as slavey stored in a Belfank. Do you think the milk as slavey stored in a distinct of how consistent of the people of the contract of the people o

domnatic work was done, and contamination filedy to arise. I have insisted on the vendors of sulk providing a peoper store, seart alternibur from the dwalling

5011. That is only in the urban district?—Yor. 8842. But you have no right to impose those con-ditions on the outside series?—We approached the difficus on for council series.—We approximed the Local Government to get power to impect opicific seem and they have refused in. We wrote to twenty-four people supplying male to the orban district of Benger, and we saked them if they had any objection. Sixteen of them sent in favourable replies and others absolutely tufused. I have been around these stateon dairies. 8343. Have you say reason to find furit with the SOLD Have you may reason to find furth with them in present?—Bot in general. Some of them are very fear, one or two requires ellipto alternitions, and the owners seed that thay were going to have these done, and brings them in a greatly the darks are very fine. 8344. With regard to the halits of the people who are capacid in the healting of the milk, had you say opportunity of determining whether they were careful and clean.—I was not those of milking-time, but I

8845. Would you suggest that it should be competent for an authority to go into a district from which its milk supply is derived in order to see that the condiscons were in accordance with the provisions of the Order?—Yes, In 1997 we had not provisions of the Order?...Yes, In 1907 we had an outbreak of searbilities, and the first five cases were supplied with milk from the same dairy, and we had no suthernly to go out. At appelisted me sub-engitary officer without any sulary. impect these dairies for them, and report on there

8947. I suppose your district would be one of their hest markets?—I think so, I know of two dames in the rural district that send milk min Bethat.

8348. What is the price charged for milk in your district?—Thresponse helipumy a quart, 8800. Do you ever have samples analyzed to accertain whether the cells is pure?—That is left in the heads of the Constabulary. I tried to get an appointment as Inopecial or the Land of the Peol and Drugs Aos, but did

8320. And it is only the County Council that can give you power?-Yes. SSGL. And they refused?...I don't think they refused... 8503. Did you make application?—I co, to the Banger Urban District Council. I had reason to suspent certain things, and the Urban Council asked the suspents of

the Constabulary to take auxiples, and he made reports 8335. As far as your observation goes, are the Centriabulary Inspections under the Pool and Drugs Act shipsent in bottom sendpool and getting them are algorithm thank shop have

8354. And in the absence of payment, you think they are not arreious to undertake any very onescens dubtes?

—I think not,

stock. You think it ought to be composent for an

authority like yours to have power to take samples of milk and send them for analysis without the combon

frage-ment - 1ca.

835. With regard to the vessels to which milk is
conveyed to your destrict, have you had reach difficulty
in scorning that they are kept in proper condition?—
No. The vessels are well rands and can be kept dean. No. The vessels are well made and can be kept clean. 8007. The men in charge, are they cleanly in these habite and drood. They are, str. 8058. Lody Evenano.-Do you think that all the Section 1. Start in the contract of the contract of the section of milk should be under the same regulations as new make?—Yee, I would agree with that. Side. We have had it in orderase that the telescale bacilli are to be found in Iraylor. Have you had any

hasilik are to be fromd in brater. Howe you had say combrest of typical in your district!—It is practically unknown in Bangor. Shot, and the single state of the Shot, Here you had say cose of dightheris caused by milk—Yee, but we were not also to brece it to the milk outply. I had one cose in Bangor of dightheries where a child died. A child of the non-

not summy from opposition, transcept to Pearsons (recubostcon) on the child.

8347. Mr. Winson.—I presume there are no bestern bester of the milk in your district?—No.

8392. Either for teleroplasis or anything she?—No.

8333. Lady Evman.—Who would make the analysis. when the samples were taken by the police?—Sir Charles Camuren. He is the County Analysi. Dr. Mousman, Do you sitesd say of the

Istro?-No. str. 181797—No, eg. 8586. You don't know the conditions under which cows are milled in these faces?—No. I would like to say, with your permassion, that in 1906 there were thirty-five cognition and one hundred and sixty-even

6066. The Cuamway.-Do you attribute the decrease in the number to the application of the Order?- No. in the number to the appropriation or the owners—on, sir, it was not the Order. It was the stringent bye-lews that we made correlves, and adopted with regard to the keeping of snimals. Owing to the growth of Bangor the cowshede got too near the houses, and had to be returned in accordance with our opp-times. 18077. So you do not situitable this dismiration is any way to the application of the Order, but rather to the application of local byclows, what the Consell considered if describe to adopt, having regard to the presidential, democra of Bangert—New. When the houses got too alone to the complete they had to be

8088, Mr. O'Benny.— Are these cowsheds under your polishistion in the fewer?—Tes. 8099. H is a large town?—Th has a valuation of thread £18,000, and I don't know what our population , but it is a growing town. 8070. Would it not be britter that the daintes should Shu. Weeks it not en orner une was course to be outside the town?—I don't think so. I think town-proload milk to better than country-poolesed milk. 8371. I don't mean a long way outside the town?— 8301. I don't mean a long way outside use toward.
That would be alreght if the people could get land in This would be simply if the people could get hand in the cutokited of the term. 1972. For brilling proposes that would be valuable institute—the feature of the term in course are see bring proceed than in the exemity. 1979. I think this is probly prosend, but at the same time one would say that it was not conductive to the conductive of the beautiful of the neithborhood that

time one women may the sea who neighbourhood that best conditions of the health of the neighbourhood that you should have come in the town?—They must be thirty feet from a dwelling-bouse, and the manner is not allowed to accomplate

8374. Do you allow pige to be bept in the town at off?—There are only a few people who keep pige in Bangar, but thuy are in a district by themselve. The page have to be kept carry feet from the dealbog-1075, Sir Stoware Woodstores. The population of Easigns is about 10,0007. Yes, scenetizing file that.

The Communion adjourned at 5 p.m. till the following marning.

## TWENTIETH DAY .- FRIDAY, 16TH FEBRUARY, 1912.

The Communicators resumed their Sittings in the City Hall, Belfact, at 11 a.m. Present :-- P. J. O'NELL, Req. (Chairman); MISS MARGARET McNells; SIR STRWART

WOODSHOUSE, M.D.; GRORGE A. MCCEMBAD, Esq., F.R.C.S.L.; ALSO. G. WILSON, Esq.; and DERMOD O'BRIEN, Esq.

S W. STRANGE, Esq., Scoretary.

The CRAINMAN,—I understand that Dr. Huibe (Medical Supermitted at Officer of Health, Belfost), desires to make some references to statements that were made of the milk which is supplied in some of the poorer districts in the city. We shall be glad to here what districts in the city. We a

\$256. The CRASSIAN.—The allegation was mode before the Communion yesterday that in the poerer districts of Belliast milk of a very substice quality is verified moment the working closes. The witness wended amongon the womany enveron-making the allogation was solded if these lasts were reported to the Public Health Authorities, and if prowas, some it was regarded as more or his hiperito making representations, as promoutous were not conducted in all cases. Would you wish to make any statement with report to this allegation S—Tes, say, I

8377. That, I assume, in the matter to which you wish just now to refer?—Yes. With regard to the milk with pure now to reterr—Les. With regard to the motor supply in the pourer districts, I have no knowledge whatever that the mife sold in the shope there is of a whitever that the unit cold in the shops there is of a vocas quality than the unit generally reduced in the other ports of the city, and the pround span which I now in this estimates is, that particular stitutions is past to the mile supply in the power districts, and that sumplus are then been time to time, and the standard will have favourable comparison with the considered of will be other model of the city. I consider smaded of mill to other parts of the city. As regarded of court of the city of Pattic Health Department. According point a season file to knew it, upon what greenth this extensions we made as to the standard of milit? Was there so examination mids, or was it by looking at the milit and the appearance of it? There is a point with regard to different kinds of milit. If while milk of a good quality is allowed to stand, the course will rue and quality is allowed to stand, the course will rue and show on the bop, her postumed not does not do that to the same extent. People who would not he sequented with the fact, looking at pasteurized multi-would think it was of a very poor quality, but we have women same at was or a very poor quanty, for we alter had milk bested that gives thin appearance, and it come up to the standard. I know in one hastance a complaint was made to our Department, and the a comprise was made to our largertrated, shift the gentleman was going to come using the milk altogether. The milk was tested on more than one occasion. The worder of the milk invited the person to test the milk himself, and it have set the statement made by the vendor as to its quality.

6078. Your point in, that while a person looking at parteurized mulk might be disposed to precounce it inferior, if subjected to the test at would not been that character?—Quite so. 8879. Mr. O'Banes .- In these much pastenaired malk sold in Bellust?-One fees cells a large quantity of

its, and small shop-owners get a good deal of their supply from this firm. The Commission may take it that we pay special attention to the power districts as to the milk supply, and any complaint made would be promptly attended to by us. 8580. The CERTICALN.—I tried to selectiful from our or two of the witnesses examined here cognized in the stade, if they knew of any dairy recognizes whose trieds was applicately in the poceer districts, and I could

Dr. H. W. Banto re-cusmined not no confirmation of the allegation that the trade in the poorer districts was restricted to certain men who or any mission of the mile wase was obride on a trade amongst the poor solely. It is generally a mixed trade they do; but I stated before that the wary poor

hay here and there and everywhere.

1881. In there any other appeal of the question to
which you would like to refer, Dr. Balliof.—No, ser.
I think that I amphasised all I had to say about other matters in my privious systems.

8992. Miss McNima.—You would not, in say way, put a difficulty in the way of persons who wish to

you a dimensity in the way of persons was write we report definite cases of indexion mile—you would help in that case if you got a definite statement that the milk was of a had quality?—We would be very pleased ossistance. Every complish as to give any such assentance. Every comprises to promptly attended to. 8888. There was no evidence that there was any written complaints seat to your affice?—Never to me, or any of my effects. When Mr. Wilson asked an obsert the standard of milk I and it (solose bestlies) should

not be found in 10 ppg c.c., when I meant to my it should not be found in Taken c.c. 8884. Mr. Witness,—The presence of the color hasili7—Yes. hassin — 16s.

8885. With regard to your Report for 1940, the
number of samples that were token for adulteration
was 515, of which fifty-one were found to be adulturated. That is a necessing something less than

SSEE. In your method of taking samples, do you underroom to arrive at a fair sycram of the average infinish. We try to exist the criminals. 8667. So that of these 575 samples a larger number

that we suspect.

6888 Yes per cost, of what you might sall more or less suspicious cases are found to be adulterated? co.
3399. And the would not represent ten per cent. of
ne whole of the market male?—No.
a200. It has been put in in ordence that you do

arec, as me been pot in in evidence that you do not invariably processe when you get a standard of fat in milk lowes than three per cost. ?—The rule that has been followed imagin for some time is that if a the case of a man of good character. A sample is conviction, very often we warn him. A sample is taken alterwards, and if we find that it is again below taken alterwards, and in maintabed. The difficulty that they could water milk down to a certain standard do not think it would congrove the quality of the

oth supply.

8991 You think it would reduce good milk down to these per cents, and standardise milk on a three per cent hating—Yee, I am official we would not get any

Dr. H. W. Barner, Idth February, 1912.

samples where there would be four per cept, of fat-8002. The CHARMAN, -- I rather gethered from your existence, and from the evidence of the other officer acting under you, that you were in some degree deterred from bringing prosecutions in the loost Courts because of an unwillingness on the part of the It is you, as a little as pensy. I have by taking a prosecution and falling in the prosecution, you might lower the steadard. But where the milk only resolved 2:50 shore would be a prosecution.

8600. I shought 16 was under 2-00—that where it reached 2.50 you did not think it would be worth risking a processible, as you suggest you would not get a con-viction. What I want to yot before you to this-would it not be a wise policy to undertake process-tions in all cases in which the mift did not reach the could answer that by explaining one or two cases.

8394. I can see your point, but I am afraid of the result of it. Mr. Witters .- In point of fact the figures show that roughly two-fifths of milk was found to be adulterated-three-fifths are pro-

second and two-fifths are not?—That was for the year 1910. The percentage below standard in some cases was so small that we did not think that we would be 8305, Those are the cases that the Chairman has referred to 2—Yes.

8866. The Charman,—If the dealers in milk, who ally with to avoid prosecutions, learned that a steadard f 240 will render them immune from prosecution, in of 200 will remar ment manyone from preservious, in all probability they will provide a milk that is not above that standard?—There is a danger of that. 8807. That is what I have remon to fear, and I am rether instruct to thirty to it. I am not stying the allegations are correct, but I they were correct I would be afred that it

would be a result of such a policy?—As a motter of fact, the Public Health Committee have this resider under 8568. I quite see that the Public Health Authority is not willing to run the risk of their cases being secured out of Court, and their officers subjected to

rather adverse criticism from the magniferial tribunal? 8222. But notwithstanding that fact, I thouk the public woold rather reseat a policy of that kind, and in all probability the influence of public opinion would be strong enough to being about an altered view on 8416. The Crammay,-You are organed, Mr. Shiole,

the part of the magistrates?-Yes, I thunk it is quite possible.

8400, I am only putting that view before you as it
occurs to an outsider. Of course, you being familiar
with host enverantence, and having experience of
what the could of these presequences are been, would consideration?—There you for your suggestions, which elessimenticary—manic you for your supposences, which will be very carefully sittened to. 800. I am making them in no buttle spirit, but I am merely periodicing a view that occurs to an out-sides besting the phromasteneous for the first fitne. Mr. Witson.—The same witness put out the sugges-tion that the legal standard should be rused to four

5602, Of course, one most recognise that if the Poster Haulth Commuttee takes the line of action that tion although their smirreds may think there would be considerable danger of presecutions of that description, but one of the previous wat power to see the actual milking and to take a accord sample, it would be a fair thing to do, and preven Sign. The Charman,—and it would be a good as to whether it was a case in which a proscention should

he undertheart-Tee,

650. Mr. Whose.—And you would be in fartor of

650. Mr. Whose.—And you would be in fartor of

that power being giren.—Tee, very stengty.

1 a fix
1 a fix other parts of the city it is sold in shops.

office parms of the dray it as soon in scope.

8408. Where is the posterrisheds conried outy—
There is a large place in North Queen Siceck.

8409. The Character.—There is a posteurisation place
in the city?—Xes, the owner is a very large dealer in 8410. And are small retealors supplied by him?— Still. The send of the larger cost hop.

Still. The send shop topper, if they have an extendement, can be supplied?—Yes.

Alliano, can we suppless.—Acre you charred any if 4812. Dr. Moosanao,—Have you charred any if effects from the drinking of that milk by young circlered—I do not think I weeked it closely enough, but the information from friends who have weeked it is that it is injuryou if long persisted in. In fact it is not not required that heaves resistentiately. it not so easily digestrale 8418. And you also know that it injures some of the "one of the larger bounts that it injures come of the fiber qualifies of the milk?—Tex, and I know it is difficult to get people to use this zells. I was told that in one of the larger bounts they had a peckernising plant, and that neither the nurses nor the patients

8616. Are there any instructions issued in regard to posting anything into the milk to supply the parts rejured by the process of parteurisation 9—No. 8415. You are aware that fruit or mest juice corrects

## Mr. M. Sunus, J.P., examined

is the damy hushess in the Barger chatrict, I under-stand?—Lee, sir. I am deputed by the durymen of Barger and district to appear before yes. I have been interrupted in the mult supply of Belfast from the arrive Barr, With regard to multh cown, door you experience extend ever a considerable number of yours? —Tes, for a long time.

8418. Do you think that the mile-yielding qualities
of the core lawe improved or decreased?—Decreased.

8419. And is in not now possible to get the semiyold of mile from core as in the cetter periods with
which you are familiar?—Taking them on the average, 8420. To what cause do you sitribute that chance?...

8411. Are you opposed to pedigree shorthorn halfs in dairy berda?—I am to a certain extent. If we want to laring back a better mile-predient streen of mileh or less with the shorthern 8622. Are you familiar with the scheme introduced y the Department to establish a milking kreed in

Ireland - Yes. I am a member of the Agricultural 8425. Are you furnifier with the solution they have mireduced for the production of a milking stream?

8424. Do you approve of it?-Partly. 8425. What alterations would you suggest?—To go lack to the milking strain we had formerly

882 When we than it is board—Fe intellect, to the Shimmond Dury folion them to they preceed to the Shimmond Dury folion them to they preergeing in does the said square. They will not have everything in does the said square. They will not have 1887. To you suggest the intellect of Arysins bond 1887. To you suggest the intellect of Arysins bond with the said that over "I made get her." Said, "Not work largest the intellect of Arysins bond pages to the said that over "I made get her." I will be a said to the said of the said of the pages to the said that over "I made get her." I will be a said to be a said of the said of the pages to the said of the said of the said of the pages to the said of the said of the said of the pages to the said of the said of the said of the pages to the said of the said of the said of the pages to the said of the last work of the said of th

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the owe you mentioned, if subjected to the ordinary was the contract of a submersion of the water. The results of the contract of a submersion of the contract of the contract

846. Have you reduced any difference between mosting and evening colds.—The first off of the interpolation of the first part of the second and other conferency in the torus of military has you could be that always could be that always could be that always are not set of the second and the second as that always present, but our surface are not set of the second as a second a

8407. In these any difficulty in posturing hands to work the darrier as occupand with your cultier superinces\*—Tea. As toon as they can get other confidences they here, and you offen have to mill, your own cone. It has been a harming question with soo. Duty mill, sero olders, and 60 per cost of the

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of my lisher's paints—served its milk and woter most all you went to sell human milk. At percent cheeper milk as the percent cheeper milk as t

trand to detect at.

8462. Have you considered the question of increasing? 8465. Would was be in favour of it?-They should he horned; even the man sending in milk sixty rules away should be obcoled in some way. 8464. You think it reasonable

that the local authority should have power to go into the outstake to examine the conditions under which the milk is produced?—Most decidedly. If a man is from sixty miles away we can have no supervision over him to all, end if these us a prosecution against the man retailing his milk in the rity the perioner is not bouched at all. We have also these "gookoo" mon

se water.
Seco. With regard to the flours of hyene which you mention in your summary of evidence?-I am very fund and next day she is wears, and she may full on her breast owing to the swellen laters, and by anti-by you have to pell her out and put her in a faces hox on stream. "Housemaid's later" is only a fool to this.

relatedness. Side What would you suggrest in how of the control. I take it that you are in favour of an inpervious from of score Madh—Nes. I go fee the converte about 18 sizeless up from the end of the shoul, or not more than two feels that after that, if all the side of the converte about 18 sizeless up from the end of the converte about 18 sizeless up from the end of the product of the sizeless and the sizeless are the sizele

in wood that is softer and kindlier than concrete 8460. Do you think that is sufficient?—Yes, I think

that. 8470. Have you any reason to complain of the c

or the magazinea carried out by the local amanusares.

Not with the local authorities; but there is a thing I would like to refer to... the evidence given by Dr. Baffin. That milk may be bought us a small shop, and by the time the bulk of the milk in the poorer districts. which comes in to the resistance of the milk; and which is the character of the shop-keeper? He has to five, too. But is he shie to live? If he is not shie to live he might think, perhaps, it is well to add a little water to the milk, and the near quaterner way suffer. Careless milking, and leaving mile in the now's adder, not want of deeping the olders, nor the greatest grieranose I know in the dairy tends, par-fectedly the leaving of mill in the car's older, which stores unit to become bad and compt. 80TL Dr. Mecomean—You spoke of crossing with a verse of improving the milling straint—You. I my the abouthers in mored that had not accom-

the shorthorn is reared for beef, and we have but in the milk.

8072, Do you think the Ayrettee hell with an Irish cow would produce a milking strain pure and simple?—
I am not an authority, but I say that I would be

I am not an assumery, not I say than I would inclined to try them myself.

8878. Too spoke of a happy medium—have you as breed as a happy medium yourself?—No, but I think that there is nor ething wrong, and we should try to

chance it right. In the quality of the unit affected by the solities. In the quality of the unit affected by the solities. They you expected will make Eight unit. Side. How you were tried best to No. will give a vector davour to milk the troughtle will give a vector davour to milk the terrupa?—Ten-sity, it does not just the the.

ser. It does not give the disagraphic flavour to still that furnity will?—It is not disagraphic in a zense, but it will make our tale what is wrong.

Still Dr. Mosemen.—Do you have any female labour among your milker?—No. At large decision we may get assistance from workers' wives or servants. Still Your milling is done mostly by men?—Prin. copally.

8450. What are these men pard?—£10 for the hall-year, and hed and board for a good man.

8481. My, Wranow,—What do you pay when the man lives in a Union cottago?—He will get 189. a week if he re a really good man, and a good, clean feeder, who will do your work without requiring you

SiS2, Dr. Mooriffian.—Can you get man at 18/-2... Yes, and £1, and some men pay results after that. 8483. You spoke of recruiting the labour from the

8484. Are you arrage that to many of these industrial schools agriculture is taught?—Yes.

SiRi. And that the hore have to milit?—I know that never found a boy coming out that was anything bet a specied boy, and my reason for saying that as that they shay no the schools too long. When they are they may to the enhouse too toop. When they are bifuted upons of ago, if they had to go out and work on the farm they would have to be very useful below they were sixteen, and if they would like to follow in the hummon, I would give the farmer the privilege of

the businesse, I would give the farmer the privilege of binding them as apprentices from sattect years in twenty years of age, and makes them come on twenty years of age, and makes them come on theoughly completes designment or plongiums, as the case may be. If you had a groy of these boys in the case may be. If you had a groy of these boys in the case may be. If you had a groy of these boys in the 1885. Mr. Wilsons—I take it that you are of opinion that the beef bode has affected the dury ministry?— The beef business was three one pount, and then the the carry business is the one that we should develop in this country. You want good milk, and plonty of in this country. Xee were good and it is the country bearings pay.

14, so make the darry business pay.

8487. We have had a good deal of expleme better on that the tendency is, in the neighbourhood

Yes, 8488. Would you consider, from the point of men of the dairy industry of the country, that this is a distinct exile...The dairyman considers that if he keeps has

own a second year she will not be so profitable, and if you breed from her bea offering will not be so realthy. A man in this city, who keeps one hundred cows, has a plan of buying them as big and as cleap as he can get them, and he never keeps thru. for a

on he can get threat, New use second year.

\$480. I am thinking of the matter from the posts of view of improving the healt—Of course, it is a pity to see a well-leed cow loneleed on the heal if the is a good militor; into the dargroum, as a rule, does not go in for deep breeding. It is more the gentlesson with the course of the course she is a good millior; but the dairymon, as a mile, does only on for deep breeding. It is more the greatly farmer who flow that. The shawman wasts a steerie farmer who flow that. The shawman wasts a steerie farmer who flow that is the shawman wasts a steerie farmer to be supposed to the property steeries. They are being the shawmals to incline the dairyman who carries on a made of the predictant dairyman who carries on a made of the predictant stand, to keep over the bone of the coose, and to keed the dairymen to breed from the best of his stock?-I would be in favour of that, so far as giving him compensation for A man will not do that unless be se

stepring ner on. A man will see so that unless he we not home by it. 8491. With regard to the concrete floor, it is used practically throughout the only and country?—I belove so, but I would condern it. 8482. Would it he your opinion that all the cown in

on neighbourhood have got the neighbournoon have got "nonsemato a most !— If you have five or six out of twenty, and put fices adde for treatment, it is not an encounagement, and that hav is made to be broken in the cause of humanity and crucity to animals. I say that a man should be and orthony to lammas. I say that a man should be prosecuted who forced a purson to injure and give pain to his own cown. I have seen many cown in the best market with each knee or hig as your two fists. searcely able to well for half a mile.

number of cattle in that state. There are some cattle who might not be in that state; but one men may be on a plank had fee a long tune and it would kill another one a plank bad for a long tune and it would kill accordent man in a week.

8693. You are of opmoon that this Order has accessed the number of cores suffering in this way?—

16 dot with me. I am speaking for myed.

8694. Mr. O'Emms.—Too world by quite in favour of having the upper parts of the focus whiter the clower by their lanes down of publics olds. "I would be sufficient to some option of their lanes down of publics olds." I would be

ore plastle than concrete, seed. That is what they naturally lie on out-of-doors? -Xes.

8486. Samething like the been-floor in the country,
with the puddle mode hard -Xes.

8487. I think the Board of Works witness and that

part under the lines of the new mode of publied city.
If this is done you will not get big lines on the coun? That is assemble our rules 8608. I do not believe it art -I do not kines whether

Say have modified the rules or not.

9627, The Counseau --You are in the Benger district
and are a law seek yeared? --I are speaking of our 8006. Here you ever soon filter mate used useles the knees of county-I was a light bed of chaff out under

8501. I have seen the mate used without chaff. I may tell you it was in a benetic scylum. There must to could wise men there, 8602, Mr. O'Britts.—You are a member of the Agricultural Council?—You. 8201. I think you said you deployed the decrease or 8001. I think you said you deploted the decrease to the dairy produce in the country 5—Les. Professor. Gordon read a very matroctive paper on the matter, showing that the dairy produce had gave down con-

8500, And it was from these statution that it was shown that the expect of better had decreased?—That is what Professor Gordon went on, and Mr. Rensell

856. Professor Gardon gave evidence before us, and I soled have whether be had got evaluate from the recognition which expect half the butter of Ireland as or dormend and he said be had not. Since then I have not the statistics from 250 co-operative encountries. in 1910 it wise £1,980,000, or an increase of £196,000 in value between 1900 and 1990, so that I think that one can may that the unit production has not gone drawn, has that then unit production has not gone drawn, has that there is some other cause for it, and it draw, has that there is some offer, could for it, and it was suggested that more mak was being given to the rearing of salven, and also that the steaderd of living was higher, and that more better was being consumed in Treland. So that I whish that when one tables of the ngures, and I think there is rather a tendency for to my that politing is no good pow as at was less mill. get at figures of the militing powers of the cout of forty years ago. You, I suppose, have not kept any records of a number of years?—I do not keep dudy records. I

Boy, Jones P. Sumas, p.p., concounted 8016. The CHARMAN, You see Parish Priest of Santalith, Pather Shehit-You, I would like to tax a few words with regard to the quantity of milk that is to be had in the country districts. We find that in winter there is a great searcily in some parts of the

considery. The serves remore screpe a cow in our seasons, and she goes dry. Some histories also have a too goods, and they slee go dry, and we find their these people have no malk in some instances for part of the ASP2. And milk is not proparable?—No, it is not proparable?—No, it is not proparable. That is the people fall is appearance during the period that nalk

seen. Would you find that you have no cows in your HOD. Would you flod shad you have no cover it your best that profice as much rulk as they did, any, thirty yours ago!—Well, I will not my that. BOM. On it we that you find it more difficult to buy therm.—If you go is for a very high-class con you have a hearly winds. You give 425 for hear, and sha my hearly winds. You give 425 for hear, and sha my hearly winds. You would be to the con-8508. And you are of openion that the milk propert

6009. And you see of content that the rifls properties of a now are more valuable that the head qualities. — Yo the derryman. I are speaking them the milk polor of your. Problems Genden, to his paper, gar un five your, and he returned to the understoldard. \$300, that undersign — You stated that it \$300, the undersign — You stated that it was your opinion that the milk supplied to Belfort n of a better quality than it was 'n your curie, years.

no of a notice quality than to was a votor cannot poster.
Del you mean that the news give a richer mile, or
that there is less adulteration?—I mean that there was
not one man out of twenty in Bellian fifty years ago pure milt, and that when the cows falled I water. I sent enculars to the public and to my curboners, and I opened the eyes of the Corporation to the state of thruty that was going on, and they apopted on Inspector.

SMI. Mr. O'Harre.—You believe, in fact, that the people of Belinds are groung core hareys?

sen many a dishences millioner made honest. #512, The Characte.—So that the law has with The Character—So that the low has been to some degree helpful in improving meetle?—Yes. In the circular I sent out I said.—The adolferation of will is one of the worst frauds that can be committed in supplying food for public consumption. the root of a nation's health by enfections the wrong, proportion becomes at length a serious sval. It is torvation administered in small deese. A risk man's terrution administered in small access. A rice among this living at been may care little about the quality of his milk; but to workness children, and over to school-boys and sebsol-gris, it becomes a matter of any processor. For, to member nothing else, the school-boys and school-grift, it becomes a matter of vital superture. For to mention nothing else, the attention of overan, by dissimilating one source of anomal best, if leng continued with deliber mainly later to the continued of the continued of the later to the continued of the continued of the later to the continued of the continued of the vital of the continued of the continued of the to recover milk. This system is carried on to the recover milk attainment in the log at inferior curfit pot-troctoms seem darks men in the log at inferior curfit potto, and others bribe to get custom and undermine the party supplying the mile. This is often done by

saferice quality of the remaining portion of the milk to mateur or povernor, or whoever it in charge. 8513. Dr. Hoosesso, What price could in 8013. Dr. Homman,-What price could milk be sold at to pay when milk is below tompenee a quart it course to be profitable, st course to be profitable, unless the disrymen is infumete so having very good milk-producing coxe. \$514. It is your against that milk should be sold at 1a, 4d, a gaine in order to pay?—It is not not much the 1i; and that only gives a man a living, cratices have to pay browst wages, and live like a man who have a large way of money mroated. The designant is bring the control of the c s life of drudgery, son he is working long hours. Thenk you very much for your evidence.

on its correspond to mile. This is often done by sharmong off cream, and afterwards showing the

## 8038. You can see a percentible strongs up their

physoger?—Xes.

8010. And in their general appearance at the people at which no male is eventable.—That is so, and I do at which no mile is eventheles —That is no, and I do not think the future to procure mills in on account of the absolute marriety of the mile. I think it is perhaps on account of west of a proper avanquement for distribution, and there should be some afficient made to encourage the distribution. My opinion is their some ferment do not wish to encourage the distribution of mile because it until to entrange and membranes or that there would not be any recompose espected, and they would rather not have people estining about their phoen at all. There Boy. Jone Smires, 7 r.—18th Petersary, 1922.

mucht be some system devised to encourage farmers

to describe the min. I do not hard there is an absolute searchy of milk in Co. Boom.

SCOL Not in the artists possession of milk3—No. SCOL Not in the artists possession of milk3—No. SCOL Box as the view that it is not prounchle in mind quantities by poor people at eartain parkers of

8021. How as the view that it is not procursly in small quantities by poor people at certain perions of the year?—You.
8222. And in consequences they are not side to get a regular supply?—A great many of them are not. You meght adopt a system of promisms. There might be some distinction—very that distinction which milk.

is absolutely source, so your experience?—I have seen it is a few districts, and m those districts I would say that there should be some subberity having power to schooling a respectable small farmer who might be included to buy or rethin a manifestative form and in should be buy or rethin a manifestative form and in should be sub-

accord glober or standards a respectative small farmer core, and he should guestime to supply only according to the should grow the standard grow and the families; how to curve at the quantity rocessary would be a question for considerable. Perhaps if at the schools nature stating whose it would be resultable, or District Considerable, and the standard grow to the District Considerable and the standard grow as topy of mill—to dustricted the milk, e808. Do you think the people now really top poor

860s. To you think the people use really so pool to preclass entills for their children, or is if fullow to appreciate for value as a food that prevents them appreciate for value as a food that prevents them appreciate the value of most rebuilding the people do not appreciate the value of most people and the value of most people and the value of most people and the value of most people are the value of most people and the value of most people and the value of the value of the property, and did not use the money for other things that are more expensive and not to better the value of value of

NAST. Here you any schene in your mind whereby that knowledge can be discentificated?—I would suggest that some literary geniteron who had experiency in this since thereby geniteron who had experiency that matter should write a pamphlet on the subject, and that the value of malk should be trught in the

SSEA, And at long get that homelopy more the minds of the rining excession. "Yes — SSEA State after a total it is made to spew with the manual procession of the control part of the rining excession of the rings and the ray rings and the ray rings and the ray rings and the ray rings of the r

state in reper to descript for the laws of hygicon.

sitio, and a greater regard for the laws of hygicon.

sitio, and a greater regard for the laws of hygicon.

sitio, if he not fluid, and it is not than a need for one

scale of the person thuse.

8000. You do not think there is a need for one.

8000. You do not think there is a need for any extension of Orders at present existing dealing with the rulk tender—Wo. 8001. You are maker in favour of a sakeme which

Soil, the set the second of seattle words for the distribution and render it would be made distribution and render it would be a second fortile of distribution and render it would not seen to be a set that you would not oppose the set of the mutter, but you opmon it, then we have not get definite conditions to reable us to who have not get definite conditions on your standard. The critizens seems as delute on your at the performance of the second beautiful to the second the second that the performance of the second beautiful to the second beautiful to the second the second beautiful to the

Well. 10% so see turns it would be wrote to organization for the control of the first beautiful or for the control of the first beautiful or for the control of the first beautiful or for the control of the control of

when the control of a subment that we will compare the control of the control of

sold only be done to deal with a proved access, where the because its appearance would be too great to warrance in string taken up in small destructure for a finited way. I would object to it then if a confineder is to be set \$8.500. Do you think it would be demonstrately "Formation and also that it would lest to a great many different and also that it would lest to a great many different providers many objects. With regard to the provider many different providers and the providers are considered to the providers are considered to the providers and the providers are considered to the providers are considered to

County Days as considerable as the entitle on scheme in County Days and the county Days as they resure tenders left by the Days (county Days as they resure tenders left by the distribution with whost they are contrasted for the similaritation with whost they are contrasted with the county of the cou

And you would have a octetor fixed strateful of the yearthy of the male think it took have my chipe time to their, but I also not appeared in as the basis of the continuous and advanced in most district. As a power of it as the basis of the continuous and the continuous and the district in which you have experience demonstrate the which you have experience demonstrate the continuous of the continuous and the

properly subserve to the first time of the expense of your twenty to the first time of the expense of your would person excell be suitable solution shown in the expense "Links the County County Counting," or whether the property of the country of

6540. A greation?—Genet bim, my, 63 per head if he keeps two cows. Genet bim 43 to beju to be these cows, and let bim pay the rest of the macry kinnel if he would gomente to distribute the milit in certain awares. I do not bink that would have revenue much difficulty. The money for promises could be restricted their of second as a government of hillimonicestical that of second as a government of hillimoni-

a destination.

The world be very largely in the hands of ship individuals. Be might strong to write these was individuals. Be might strong to write the way the failty, and he might ship the tender to very the count of the large way the count of the large way the count of the large way the country to be a second to the large way to be a per large way to be a second to the large way to be a second to be a secon

Rev. Jone Sannia, p.p.-16th February, 1923;

number owner was tooks after the gold, the retermany surgeon, who looks after the district, would be quite surfacest. 8547. It would lead to a multiplication of the number of people who would be engaged in carrying out the of people with world be engaged in energing out the work. If, on the containty, you were dealing with a large purreyor of utills, the difficulty of mayeston and the cost of impertion would be considerably reduced, and if computation areas as to life fulture to distribute milk in a perials area they equid be reported that there would be more difficulty in one case than

on the other, all things considered. For example, failure to distribute over the large area. failure to distribute over the large area.

8368. It is a matter of optimar—Yes. The first
thing I would consider in the special of necessity, and
then the vectoring out of the athens. As to the
necessity, I would take the opimus of the medical
cofteer of the district, and the relieving officer, and the
Desirat Councilies. When the schools would be Desirut Cramillars. When the school would be initiated, I would of course, pay attention to better of clergymen regarding cases of processity. If the uncountry were established something should be done. K69, You think some others of distribution should be the country of the course of the country of t databation from a large centre would cost a 8550. There is another difficulty with regard to your

econ, there is arount attributy with regard to your selection—the owner of a very intented number of own most of necessity here a varying supply of milk. The conditions implie to deprived of a supply of milk in the winter season when the necessity for the supply is most appost, whereas this owner of a large transfer of cores could so arrange, if he had a generation critical for a person number to reaches the securities my, in November, and the would be in full his core, may, in November, and the would be in full milk, and would contrate milking up to March. This would give a very fully guarantee of supply. 8501. Have you ever learned that invalids or others inside to look after themselves were make to get milk, owing to searchy or difficulty in procuring it?—I do not knew of any case where the subject of the posterior of the procuring of the bootstry they could not get by, but I have forcer themselves they could not get by, but I have forcer to the procuring the procuring the procuring the pro-

difficulty being experienced. Of course, people are difficulty being experienced. Of course, people are community where there is a cone of real actioness, and they make manuface of their own supply. But comstep that the most of many own supply, any con-more in the party is a great energing on more occasion. 8000. Dr. Mosennan,—What is the price of milk to your dashed?—Throughouse a quee! 8000. All the your round?—Precifically all the year round. Is might be a likely chapper to account, but

round. It 8564. Have you many Usace cottagon?—There is a good number. I cannot tell you the number definitely.

good timber. I assess fell you the sturber definitely, \$333. How are they supplied with notice-do they get it from the farances. Some laws goods, some have cowe, others get it from the farances. Some have \$358. The goats of Oo. Down, sie they of the ordinary here?—Tee. \$357. They do not yield a continuous copyl, of rails? "I have also got yield a continuous copyl, of rails?"

858. But they are helpful?—Yes. 859. There is no diswaright want of milk?—No, but in some districts there is a great deal of meanwarence is copied distinct term in a great coal of inconvenience in report to preserving it.

8000. That would be places where people are living a long distance from the milk!—In some cases the

farmer does not want people to be coming who might 5 pay. 8651. In the Danies and Cowshells Order endored in your distinct.—I see not an expert in regard to their. It seems to be: 9502 Mr. Winness.—Are you speaking at Samifield or the Moora dustrict.—My distinct includes Linburn

and Newtownside. SSSS, 102 has separated by the SSSS of the SSSS of the SSSS of that your evidence represents Southfield, and Jose penish-Yes. It represents Southfield, and solicitors a number of overlap parables.

SSSS, 16 has been suggested that in creatia dustrious models deliver mells at the solicit buildings. Soot if the even suggested that in certain distribu-te farmer neight feltiver mells at the solved brillings, and the children might take it beams. Would that be preclimated in your distributer —50 for an extratishing the supply as conserved it would be all right, but how would you work the solvens.

8000. The Channay.-What about Saturday and Sunday, when the children would not be at the schools?—It is a very good side for centralising, i.e., another—if it is very good for he consistency. Any for hanging the milk within reach of a great number who would not otherwise get it. I could not allow the ashed buildings to be used for the purpose, but the distribution might must the children certain the 8507, My. Winson,-I suppose you include the town

of Saintfold as one of the places where correctly cureta?

—In the town of Saintfield milk as fairly source during the winter.
ASSA. Why I ask about the town is became we have definite ovidence of a school o whereby farmers send definite ovidence of a somete wastery farmers and milk to a depot in small bowns, and the people come to the depot to take their supply, at a price which leaves a goalfi to work the schemen—These would not regiv to Saminfeld. It would not be necessary. The

difficulty would be more in the country. ufforte the countrymen?-Yes. I am speaking of a large area of County Down, from Bellinshited to Downpatrik, and here and there in rural districts year faintfield. 8220. In the event of an opproved variety of roat

and toffsing during the winter mortles, would list ay second distance towards settling the goodfort—I exist any lists. It is a question in a goodfort—I exist a post of the property of your scheme, you not property pressures to small farment to help them \$800. He was also become the property of the pro so ony conversions.

8972. Do you not think that the whole principle of giving premiums to people as a little dangerous, and absolutely demornlising?—I do not think so. It is a

aystern that was adopted when we were as school, and runs through life. It is an encouragement, 8573. You think it would could these fermers to lar-O'ch. I'dd Issaes is wrong consist these branch or any core which will orientally page 2-76.
8876. It is not a obserty 2-No.
8876. It you not think is would be better if the money for those cowe were berrowed from a cooperative north bank, or stonellung of that north.

given a premium with no penalties stinched, improving his our dock—I do not think on. You would not get him to widetake the responsibility; you must converse him to do nt. I would not give the premium Ill March or April, when the continuat would be fulfilled. this absence or age; and the state of the st

isolida-prot of milk, so be distributed scorago; all the children at mid-sky when they get use for hidden. boart—from will have to develop the question a hittle more. Do you mean free distributions in Milke and the state of t 8879. The milk would be brought during the brocheen half-hour for the use of the children !-- I think it would

8380. In my part of the country down South, children walk a mile, and sometimes a mile and a half, to salesol, and the labourers' shifters being, perhaps, a posse of bread, they have no seet of artine, and no good of bend, they have no see of dirths, and my face where they goodly purchess my milk; and they face there they goodly purchess on, milk; and they fave bessons from the morroring until 12 o'shoot, and they have to milk the second of the second to go back to make the second of the second to have to do that with possible ply no booth. We have to do that I whinh, Passible o'ld before its my parsh, hong a footly substratial knoch, I think; is it to be over all be all cight. The question is the

it to be got. 8381. We went sate that question, and we came to 8381. cost. We with into this question, and we came to the cancinum files it was important that the children should get once during the day half-spiret of mile. We went must be particular of the three, and we found that we could sell milk to them, giving them half-next a day, for twopeons for the fire days of the week that they were at achoel. But it was bound we should have to supplement the amount by a small sum. Every ishourer or small farmer should consum. Every assourer or small harner wassum con-tribute twopense per head per week for the milk for his children, and we found thus those farmers or inhousess who had not children at their own were inhousess who had not children at their own were Bev. Joses Sminn, v.r.-Mith February, 1912.

willing to contribute, through the National Health Association or some other body, a small rum to pay the difference. Our difficulty, however, was that the school manager reduced to show it to be does at the subcol. He shift that it would inherfuse with the learner of the benchers, and also it would upset the armagements of the school. Would you object to it yourselft—I could not object to it from that point of view. Would the teacher give the milk out? 8-884. The milk was to he brought does by whoever was selling at-the supplier had to take it down to the subsoil at luralseen time, or the milk might be taken from the overmery, and the shiften should have their own maps at the school for the milk?—And the milk

was distributed at the school peeth?

8083. Yes?—I do not think I could object. There
might be some other difficulty, however, especially in

page seconds. SSA: There might be some teorable shout the washing up of the mage?—I would not object myself to that; to make the chaldren wash up the many would be a useful bling. I would like to speak with regard to the milk counting into the city. I fitch: that at the relative

clean, to facilitate the transit jate the city, and I think also, even that there might be a possibility of arranging a means of obstances the veneds at the 8886. The Chanceas.—There is a large trade soming as milk from your district into Belfast?—Xea. Three

studious there should be special depote

would be more from the previous perish I was in. There should be special accommodation at the stations such as a special shed and hot water. I also wish as say that I do think that, in my optnion, we can go to he in regard to togulations for the management of the milk traffe. If you imagine every cow-layer a laboratory and every milk-server to be an analyst ag we wish to rim the milk on a commercial basis we must go mostly on the standard of clearliness I quoted

above, i.e., the sentingental, not the bacterial standard.

S866. You would not move in advance of the traces?...

No. I think we would be moving in advance of the times if we went any further than that, and adopted.

the bacteriological standard. Reverved W. WIIGET examened.

shorthern that you know at once has no milk in the

8602. And if you yourself were braying a beast for the production of milk you would not invent in on-of this particular strain or type?—Most certainly not. 8608. It is only right to remember that those who are administering public funds for the benefit of the entire country are obliged to look on this question water purview than the Commission or your

117.—That is admitted. self?—That is simuted.

8604. Wood yoo he in favoor of the soggesteen useds
by a previous witness to introduce an Ayrabire bolf to
cross with Irish cores?—To an extent, but not
sliegabler. I am afraid our farmess groundly want a

Avrebire cross. se Ayreture cross.

8600. Not would you be likely to have an autom
inveice deak?—No. I find there are some dely

of malk than a larger cow that would give a smaller amply.

#8500. There is my mond at the moment the immed produced by that cross. I take it that a number of you darn farmers keep their case is long at their particles. And those who provide milks for the

heep healthy?—NO Mone who provide milk for the city, but the other furners who produce butter would come trader your description. I am only seven miles from the city of Belfare, and the larger farmers are all darry farmers, sending their milk half-way to Belfare.

five of them kept to produce a said again. If they were old cover I would not object to morely, the they are com-in their perms, from four to seven years of age. Too coordingly loss the prosmitting of getting good militing spec on fee revery nice mendies to the year, and the dury farmers let II as it is more perfittible to said them that or nearly first than to keep those on for the months to which there make would not be available, and I cold suggest that that it one of the great excuss of the determination of our miles suttle. farmers tell me that they cannot get to-day the own

that they get fifteen or twenty years ago.

8608. The stock has deteriorated?—Ten, even remails sily in the list ten years and much more remainstably still width in the last toward, five or thirty years, and star water the first to two consess—partly, but only to a small extent, that there was a good deal of expert of delay cows to English and Scobind, where larger parious could be obtained; but they attributed it third. during dairy rows again by their estres is concerned and I would like to suggest that the heat thing that could be four would be to drove some actions by which could

8887. The CHRISHAN —You are a Presbylerum clergy-mag resident at Newtownards?—Yes, 8588. And you see vice-observato of the North Down Aggressional Scottly?—xvs.

8589. And you have been interested in the breeding
of entile up to a certain period?—Yes.

8990. You have formed on common. I take it, with regard to the lines on which cattle have been bred at

S9H. Do you think the present scheme is contactive to the premotion of a good malking stock?—I don't shoult that st as. I will tell you what I have beard from the farmers in my distort. There are about a burieful farmers in my organization, and I know that

8992. Is it herape they believe they are conduct to the production of stock that is diminishing the milk supply?—Exactly. The first cross, I have heard again and sgam, of the sedinary perso-winning shorthurn of the present time produces a distinct diminution in the milk yield, and the second cross is often more remarkable in this respect.

remarkation in this respect.

\$3000. Have you heard any suggestion as to what
ones would be likely to poolune briter results from this
point of view?—Well, I don't know. The mean
ourprotice I have beard in that the likel should be suggestion I mave means in that the these seasons we couried through of breeding milk-producing shorthorns. I suppose several men would be of this opinion, that the heat seimal is the shorthern, if you can get the

when the seller of a year old bull sees that the days good milker, he meses by that she is the least but million in a bad celling steale.

8006. Would you think it desirable that records stoud be kept in the shouthean pure-brid herde, and so-old be keps in the measurem purcons news, and that when a buil is offered for sale it should be made a condition that the person offering the beast for sale would state what the milk record of its dem had been?

8305. This would be a beginning, sithough it would 8006. This would be a beginning, assessed with the first he quite an ideal scheme, becomes you would like to see the record of the dam of the hell?—Xee, 8006. That would seem to be the first direct step?—Yes, I would agree with that. I have far more faith

the old breeders were medical to go back many genera-8997. We can hardly so that at the moment?---I

https://doi.org/10.1009/10.100 wes also a preservance to regions, and thus the data was also a preservance?—"Ere 8000. Without any reference whatever to the milit-producing qualities of a stream."—That is mus. 8000. I am rather Instance to think that the tendence

in the production of shortherns in recent years bear been for the conformation of the animals wethout inregard to its shirying properties?-That is perfectly true in the North of Ireland. There is a tone of

Rev. W. Winoux.-16th February, 1922.

dairy farmer would be induced, or even compelled, to select out of his shock, say, enclaimed to one-fourth of the best milit producing minush in his, not that you should purchase for a neighbourhood like that I mellificated to you a build of a militing stream. I would to find his now so heavily; she would always be giving a little malk; the cost of fooling would be less, and no wouse may a dust, and the carves in wife objections bond one worth shoots II, and they would be worth a good deal more of properly bond, and II dust see that its Commission could not a graces service than an assate way or other providing that these cows are not be shoughtened off in the way, and not beying any

produce in the shape of calves.

1009. There is no doubt about the immense was 9909. There we to double shout the unmanes wessign going ont by the simplifier of nameals on the period of their lives when they are good perificult from the distription by good of view. Will regard the residence of the control of the control of the control of the state of the control of the control of the control at the Dalkin Silining what their reportation is length good for a number of years—I know the head will length for a number of years—I know the head will \$50.0. And which were unceded only with the result that they have bred very deep milkers, and new then that sory men and another delish is consistence, where the system could be average of their district. The oppleasion of that oppleasion of that oppleasion of that oppleasion on that oppleasion on the oppleasion of the oppleasion oppleasion of the oppleasion oppleas at a standard which is considerably at he average of that district. The applies

you can havin in any characteristics you want. That is proved in the positive world. I think that in the case of the hull calves, except the dam was a very remarkable new, I would not be very much in tarour. 1611. You would not be in favour of establishing a breed of bulls with these characteristics. I would not have the first cross so well, but would rather want for

further breeding.

812. That would postpone the results for a time?—
Yes. With regard to the bridge salves, I should say that these calves should be regastered, and thus being that these calves should be regastered, and thus being the post valuable, and, if repairers they would be note valuable, and, if an occasive, and, if necessary, we could substitute to a small extent the production of those culve. That would be the most important requirement in this country at the present

terms.

8813. With regred to the distribution of milk in your
district. I take at that there is pleasy produced in it; but are the poeter classes this to scoure a supply continually?—Yes, we have quite a number of people who keep a small number of cover, and we have our 8614. So that you don't think my difficulty exist shoot pox people heing able to seems a supply of wift?—I don't think there is any difficulty. These Respect of these or four sows no very common. to sell mulk rettail at home?—He door not do it in the reighbourhood between me and the city of Belfant;

8646. Does that lead to may difficulty in the uppy the distant where all the malk in sent away?-Bot 8617. There is still a sufficient quantity left?—Yes.

one of these dance in the pince has copriderably over Stills. Do you consider it brings to the scheme we Sills. Do you consider it helpful to the scheme two ever contemplating, and to the scheme that was undertaken a neeple of years ago by the Department, for the catabilisticant of an insperved milling bred, to have prize effected at the shows for boils or cows that have been achested, independent of their pedigree or breeling?—I should say it would be if you get them of sufficient sizes and quality, officerated I would not work to receive the contemplation of their provide not sufficient sizes and quality, officerated I would not

Mily, All these cown in the Department scheme have reached a certain standard of perfection; they have all

8660. Would you advocate giving even more substantal prace in the fact instance to minute of that class, in order to subsidite indireckly the people in possider that most releasingtons also. econsider that most seventuageous auto.

##22L Have you say experience as to whether or not the mill-producing quality of the cow has determined or improved—the feeling senough your periodic new would be miltor the of the down gradet—That is not periodic and the contract of the contract.

8632 Now, with regard to bands required for disording to those dainer, here you heard any complaint as to difficulty in securing suitable people is engage to this computant. Not more difficult in

of any kind.

8025. Of course, the young boys grow up with a
howledge of steerding to cove and learning to milk,
howledge of steerding to cove and learning to milk. hrowledge of estecting to cover and faranting to make and grow into men who are engaged in that occupation?

- You, and the views of a great many of the labourers occurs at three or four or "deed in the manuar, and come again in the afternoon when the second inflicing when you."

The supprimensate his measure of the household.

800a. And it helps them, to provide construct, the work of the control of the con would not otherwise he available for their families?-

9695. You fold us that the greater part of the milk was tent to Helfast by road rather than by call?—Yes, from our removate neignourance.

8939. Do you blank that sufficient once is executed in order to scouse the elecations of the milk in mentals.—I should see a law energy seem that textutering the large sufficiency, which are carefully palcoled, from the milk-case, which are carefully palcoled, from the milk-case of the producer to those of the dealer in Belfast the dealer in Bellinia.

8027. They don't change the milk from one out to
the other?—Not so far as I know. the other?—Not so far as I know.

8638. Is there any other general aspect of the case.

Mr. Wraght, to which you would wish to direct the
attention of the Commission?—I don't think that there

attention of the Commission?—I don't White Unit Move is any other appear of the case that tooches the neighborhood in which I live. I have been a kind of spouled farmer myself, and have always taken to provided interest in the question of farming, and I have inhelited that take, because my lister was a boreder of syttle.

8000, Year capenence extends oriends year own immediate locality. Here you heard of direteles in which milk is not presentable for money?—No. I have not heard of sook districts. The only other thing is would like, to mercies is what one of our large day scattlitte, to accides its who one of our large descriptions used to me the other day, when I told him secretaries and to me the other day, when I told him when I told him the contract of the contract of the factors are not shall do the factors appearinly in the might-best-hoot, to sake him to the secretaries of the contract of the

9630. I am afraid that it would hardly come within looks the feeding stuffs that are offered to him, that he would get into communication with the Department and have them analysed, to see if what he re getting re-really what is purposts to be?—I told him that myself. He said, "you know what the fasmer is; he will not take the tecuble."

8631. He does the stavish part of the work himself; but there is amplier part of the work which is less laborious, in which he is less disposed to engage?—He 8602. Dr. Mossennan.—Here you come to any co

56002. Dr. Nossenskan.—Have you come to any con-clusion as for a shilly breed of cutile—a based that would be useful for milk and best?—I have often thought of that outped. I suppose a coust between a pure shorthorn tell of a good militing stram and as 12th dairy ow would for his nearest approach. They cell them half-bred cows, but they are not half-bred. 8683. In not that breed getting very source?-Yes 8684. They are expected as a making of fact?--They or expected. I think that even would be as may as 8686. Have you tried that?-No. I had a pure short-

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iler. W. Wezone.—16th Petrospy, 1912, here ow that gove twenty-five quarts of radic a day, and milesi within a few weeks of her natural spaces. I had three daughters of that ow and two grand-daughters. The first daughter was a few milker. The second daughter was also a nike. The second doughter was also a fair milker. 8826 Mr. O'Buxes.—By what sort of built—I had to take shatever pedigree hall I could get. I heed "Lord Scrobe," I also bred "Sliver Thorn," which

"Lord Schole. I also need "Stiver Local, water was sold for 800 gainous, from the same con. The timed call was bred from "Mokes," a farmous hell of Lord Lovel's. That was a beautiful cow, smaller in size than the dam, but which could not feed but own sale. I had two gand-daughters of the sacre cow that was such a fine milker, and I got red of them, because I could not get on much milk as would supply my honorhold.

8637. The Chamsux.—The lux of herelity was not clearly borns out in that case t.—No. It was, perhaps.

1 a thought the bull. It was a very disof a milking steals.

appearing result. It might have been that the hells 8000. This resider dimensioned the accessity of having a uniking startus on both sades?—That is exactly what I wan the suspens upon yea. 8800. Dr. Mecsantor,—You they we hapt this core to a pure-lared sketchern health—You, and I get up to 80 a pure-lared sketchern health—You, and I get up to 80

ett. 8840. Is milk pretty georiel in jour district?—Yes, 8841. Have you any Union cottages in your district? 8623. How are the compacts off for milk?-I should wery well. I never heard any complaint.
Soel. How so they got their mile—do they get it from the formers are rather districtived to supply milk new.

known only one or toro. 8645. Are there any goats in your distinct.

See I have so a district between where I live and
few. There is a district between where I live and
Benger, and there is a consultantle number of goats

Henges and 1900's a construction content of the spots of side. The refinery links peak 3-75, the peak of 1961, The refinery links peak 3-75, the peak of 1962. These set very media antande-the unspects of 1962. There are a good many striffsceids.

1963. They were a good many striffsceids.

1965. They were a good many striffsceid to know if you strift the striffsceid of the str

question to a very modelingent along terrors, shall I can give you his bled on the subject. His idea was has sumething should be given that would cover large the three mounts that he would have to being this cow which she was and paying herself. He would take the chance of hericage that own moding up the loss, and my chance of hericage that own models, the day formers are well-steady after to their office. He delay formers are vell-steady after to their office, the other formers are transported to the contract of the contract of these transports and the contract of these contracts of these 

8668. The CRAISSEN,—You are Medical Supermindent Officer of Health in Lungant—Yes, in the 8509. I shall not take you over the ground abready traversed by your Veterinory Inspector and the Clerk of the Council with regard to the provident made in of the commit with regard to the provinces made in your distract for the carrying cost of the Dairies and Milkshops Order. We are familier with the arrange-

Milkelope Order. We are tageined with the arrange-ments, and it is not necessary to question you with regard to them. World you be an favour of literating darranged—I would be in favour of literating ill pervepors of milk in the urban district.

9970 Would you make it unversal?—Only in the 9670 Would you make it inversally—only it are trian districts. It might be limited to large towars. Outside the urban districts I don't think it would be 8633. They keep no record—the farmer could not say precisely what the cow would gave?—No. He could sky precisely wans me eeu word green—no. He coeld prev you an estimate that is farry accounte. Side. Have you ever checked such estimates with alases where the milk record is kept?—He would not over yielded.

3655. The reason I sak you than question so shad the experience of those who have kept records has been that the very one that the orderery farmer would that the very one must the ordinary amount would select as the best milker was not the best milker?—That

is stronge.

10.56. That is the remarkable thing about the keeper strong a small by of these records—that the cow group a small but farmer than the cow that gives a big supply for a short period?—A deary farmer told me that he had one or two cows that gave an enermous yield of milk, but as the cow that gave a smaller supply, but gave at 8657, Ohviously one of the great difficulture in cutch. lishing say general system of neak records in the country would be the fact that the cows pre killed!-

You. Still. With regard to the poligree shortkeen infit records, is not these this great difficulty to be over come, that the poligree shortkess breeders are in the come, that the pengree measures breeders are in the habit of receing their young culves upon the days, and consequently there is no possibility of taking the milk record of that dam?—I think that the system of ceaning on the dam spoils the milking quality,

you have look abast there so enough to be beef problems in it is almost impossible to review the valling califors of them as the present team, or solved of the present team, or content of them as the present team, or content of the present team, or content of the present team, or content to the present team, or content team, or castle feedings—xes. They would like that in the neighbourhood pute materials would be used. 8042, Mr. O'Berna.—I suppose you consider that the farmer who wants to keep on his cow and breef from but not in the meantaine.

Bost, He would rather strive to get his gay... That is my own figure.

8664. It seems to be a kind of spoon-feeding?-You 2006. It seems to one of arms of appears seeming.—as well never got them to share unless you give them as indicovered of that kind.

1995. The Chusaxav.—You commot expect him to be a pidesubropurit.—No. You might got as increased pelos for anamals such as I have redestorated to make I induced some farmers in my neighbourhood to keep some pure shortherns, and they have done removiously well; but the great bulk of the farmers will supply breed cattle that will bring the codenary market price. 8006. No Stewart Westmores,-When you make of 8866, by STEP up we would be able to a special of the deterocerities of the cattle, you spoke of the quality of the units, not the quality?—I think the farmers also believe that there is determined in quality.

8667. Have the fermers in that the quality of

the milk is not as good as at was?-I think they have the files.

The Cremus's—Thank you, Mr. Wight. We are very much chilged to you fire your intensiting evidence. Dr. Samuel Amerw, M.A., examined

8671. The crudence that has been put before the

Commence up to tee present woom scent or honorate that the dutines he the chainst could be urban areas are the district that need the most care and selection. It has been stated, in regard to the milk seek little Bellius from the contrible districts, that the sample show a far higher percentage of poor milk thus, in the case of milk produced within the city?—The granking of because to purveyors in when districtly would not interfere with the administration of the 8672. I don't suggest it would; but if it would be a benefit to orban districts why would it not also be

Dr. Samue, Access.-- 16th February, 1912.

a benefit in recal districts?—Take Lorgen, for instance, we have a very large namber of durymen both in the norm and outside, and it would be a great advantage and the second of the second of the second outside and were very uncompalies as to the names in which they kept their permises or negletal abbitrated mife, and he able to stop them outplying the milk within the lower, but I don't think forces would be of the same

977., Of course, that is controversial. Do you think that the positions compiled by the Medical Orders of Health in an orban dataset at each of the control of the control

Inspectors' Onlet—lists was recently issued by the Local Government Board, everything connected with the admenistration of the Order, or regards the cleanicost and pointy of the mills, and freedom from contamination, was given over to the Veletinary 5-815. You think that would be more peoply and efficiently disclaraged by the Medical Officer of Hacilit-T-cs, said is was the condition in the practically exitied

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arbjaring sheares. At the patents sense to the Leepen Sequent.

In confidence to be a confidence of the determinance of these conference—Yan, perfectly.

1979, And yan controls finish the disease wes directly 1979, And yan controls finish the disease wes directly the control of the disease of the disease western for the confidence of the disease of the disease of the the employment of a narrier on the perceives that the relay moments taken in the diseasements of the triple manner. The vasite supply was very find, on everything control with a recognition of the control everything control with a recognition of the second of the processing in the triple second of the processing of the control of all prohipsions of the control of the control of the prohipsions of the control of the property of the second of the processor of a short correctly—Lee.

model the presented of the control and the con

salignoid the public health "—"You.

3803. Its history way other pourul wire of the case,
Dr. Agarter, that you would wish to present to the
Dr. Agarter, that you would wish to present to the
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Veterinary Imperior I— Sinite the Michael Offices has been proported by the Michael Offices has been entired by the Michael Offices has been entired by the Michael Offices have been entired by the Michael and that mills in very imperious from the blank print of rare?—Loc.

10. The Michael And that mills in very imperious from the blank print of rare?—Loc.

11. The Michael Offices have been and the Offices have been entired by the Michael Offices has been entired by the Michael Offices have been entired by the Michael Offices have

Inspecte to the imposition of the number and the conditions in which the number are bound as regards and conditions in which the number are bound as regards as elecultures of the rails and the portry of the sulfs, and the conditions under which the millie in produced to the conditions under which the millie in produced, which is a properties of the Medical Officer. 8001, And they are not set at present?—No; that is no produced to the condition of the condition of the state of the condition of the condition of the hardest produced. You have not get the sulface that primary and produced the condition of the hardest produced. You, I cover shorted that the Whilat Tepheness in the color, for an other than you will replace as the color, for an other than you will be a few to the replaces in the color, for an other than you will be a few to the color of the

tent is only positive so long as there is may herithmate hyphonesis the horix.

1908. De I noderstand to say that a person who deed. De I noderstand regist nod may be the process of the control of the

sin 8935. A priren the exists to the Widel test may be interconstruct—be, unline the existency the battle, for the control of the state. The control of the

1907. Your position is that the mou who reacts to the Whith test maplet not have the typhones beeffil to the system?—He may not confitted a predices a reaction?—The litest domaintain of the blood, and 800. This situated condition could not do any harm?

SHOW TWO IS IN ONE of the rest of the rest-3. However, and the program has reasonable proposed through an entirely of 1997s. The Chemaraca-Sey third a program seasonable proposed through a rest of the 1997s. The valued on the other through the proposed proposed to the proposed through the proposed to the proposed to

separal solution was contributed only in the means and 1 amount of the contributed only of the dark of Labeline and 1 amount of the contributed on the contributed on

eweything that pertains to the elegationess of the nells and of the wemels, well of those who are engages in the milking, and such matters that really don't ful 8705. Do you find the Order in loss efficiently carried cost?—The Order is not so efficient lo one district. became up to 1908 we had a regulation reguning 800

8006. I was thanking of the question of the admires-8707. Sir Symwarz Woorncore.—You refer in your story of explemen to "the adulteration of will as summary of evidence to that it should be the minimum. At present the defen-dant in the case of a proceeding can away that the the core, we sed several instances of sent; her my opinion is that you never get the mixed milk of a herd under three per court, of fat. You may get the nilk of an odd cow, owing to some circumstance, come ander three per cent., but you will never got that in the case of the mixed sulk of the heed. When emerpulous deligenes are inought into the court for selling milk under those per cent, of fat they say that the milk was sold as it came from the con-8708. How can you meet that difficulty?—I would

8700. You would convict him if it was below there r cent., no matter what he succes?-Ver soni, to suster what he tears 7.—Xes. If it was in three per count, it would very neetly happen those nould be a miscarringe of finite. 10. Mr. Winson.—We had evidence from the 8716. Mr. Winson, We had evidence from the Glasnevin Ferm that continuelly for many months Olisatives prize sens continuous for many months together the mixed here gave milk below there per cent. only an occasional con gives below three per cent. of

8711. Would you not consider at a budding that, if

the whose neet red becow takes per cent. \$712. Is not there, in peen of fact, a more reliable nethed of judging the quality of the millio-the French refractive judge?—I don't know that. In was always considered matri recently flast the per-centage of solids, not fat, was a more accurate and flishle test. 8013. Mr. O'Burre.—You would be of opinion that Solid are to purpose a second or to opinion uses a prosecution should be mentiored in all cases where the standard of for in the ratik was below three per own 8.—You, unless, as Mr. Wilson says, it has been absolutely proved on a Government form that the face

8714. You think the Government one ought to he ashumed of herself?—I think to. At a cohecquent stege of the Sitting, Dr. Agnew was 8715. The CRAMMON -- I understand you wish to add

something to the evidence you gave before we adjusted for loneboon?-Yes. 8716. What was the particular subject to which you wished to refer?—I shink the exceeseful administration the Dairies Order will never be thorough until scoty Nedani Offices of Health be appointed county received theorem of Melonic to Appartment who will supervise all sanitary administration in the county, and he entirely independent of private

8717. You would advocate the appointment for each county of a medical officer to supervise the administra-tion of the Public Health in all its branches?—Yes, and as administered by all the District Councils. 8718. And report to the Local Government Board?-To the County Council.

8729. Would you make it an appointment under the county Georgia?—By the County Cornell. 8720. I am afraid that would not be possible in the recent state of the law. They have no prejudicilism persont state of the law. think most

4021. I am not quarrelling with the suggestion, but I am possing out, as the law exists, the County Council could not medicinate any such defice, because they have no perisolation under the Fublic Health Act. That is all vested in the Bural and Urban Coznola?... I think if it ever because possible to make such no I thing if it ever became possible to any advantage alteration in the law it would be very advantage become the admirateration of the Public Resist Let and the Danies Order would be more officers. 8712. The duties of the officer would extend over a large area?—I've, and the officer should be thoroughly independent of private practice. There are similar appendences in England. 8783. The poster-conferred by the Local Government

tot of 1898 flore not confer such authority as you on complete?—The Medical Officers of Health will never 8724. He would stimulate them?-Sturplate and 8725. And your desire would be to make these nee officers independent of private practice, in order that there would be no possibility of their being affected by local influence?—Yes. In my currer I have derived an immense advantage from the influence of an Impector of the Local Consument Board backung my up and supporting me in the duchange of my visious duties, which may be hable to bring me unistatice, which may be hable to bring me and conflict not only with the local authorities, but with

organic Bot Cary ross one real mantenance, and was any paints pathons.

16720. Dr. Moceman.—Is at your opinion that the cable health is suffering from the want of such an opinion but the suffering from the want of such an opinion. cultively due to that feet.

8727. You would have one officer for each equato? Yes. If the countries were small one officer might do

Not. It is for two,

5728. Who would be perfectly independent of every

5728. Who would be perfectly independent of

cost—Yes, who would be perfectly independent of

release penelise. There is suchlar point to which it

who wouldn't of perfectly in the wouldn't of the it. to supervise defries. I think if we had the sur powere as exist in Scotland it would be refficient. powers as often in occurate it would be remnance. I don't think it would be right to have shad control over dathes such as some persons wish for. I think no exemination should be made without consolitation with the octande authorities, as it is done in Southand.

8729. The Charman, —I will point out what that mil 8720. The University At the present time the Antein lead to in Anieim. At the present time the Antein District Corneil hold that they are petting into open tion certain provisions of the Order: but would regard as the most important elements of the Order are not put life operation at all. Anterior across concerning the put life operation at all. Anterior across considerable quantity of milk into Bellast. The Bellast subbardies say that they regales subbards to go their the districts from what the milk is sent life their districts. district in order to secretain under what confidence of is produced. Manifestly it is produced in Antein mater conditions that are less exacting then in Belfast and if the neithest summerate trice to impose an on-cowkeepers in Antrim the conditions which obtain in the City of Beltust they would have no right or authority to impose them?—It would be much better

administer the Order You would sim at having unformaty?—You 8231. And have each individual authority?—You. 8231. And have each individual authority put into force all the provisions of the Orien-You. 8231. I agree?—I see eather? 832. I agree!—I can satisfied that if the county moderal officers were appointed that such could be easily done-that the outside authority would carry out the combines of the Order as strictly would carry out the combines of the Order as strictly as it is done in Bellant. These certaile districts have always had a had compile as by Bellets until the last three years. 9735. Their helice is that they have set as consipt to other districts—I save I was often ided that munded things to be done in my own dutenes before to Order of 1908 that would not be asked for in om very glad to hear that Lurgan as the pronout

authority could be compelled to

## Mr. Janus L. Claux combined.

8754. The GRAMMAN, You are resident in Antires, r the neighbourhood, I understand?—You, 8735. Are you engaged in agriculture in any branch? 8706. Are you interested us the dairy tends in any 5756 Are you moved way?—No.
6757. Is there any searchy of milk in your district?

8338 No accision of the population, however poor, finds any difficulty in obtaining a supply of milk?—If dates any the very poor might possibly find a difficulty begins to very poor might possibly find a difficulty state. But it is presentable if they have the money buy it?—It is, \$496. Are there more there is -Two hundred and frity-one persons have been rega-tered as address of rails so the Antrim Bural District. Where do they first a market for their wift?...

A number of these send their milk to creamerica...the A Billiber or used to majority of them, majority of them, majority of them.

18 21. Are three coexameres in the distribut.—Three case two in the accelerate and of Antrian. A tramber of matter venders sell write in the bown, and a number of the more exclusive distribution and there will be more exclusive distribution and there will be

6743. Are there many sending milk to Belliush.— There are a good many in the distinct adjusting the Belfest district. You hold an official position?—Yes, I am Clerk to the Anteins Bund Countil.

8743. What promien is reade by the Antein
Brack What promien is reade by the provinces
of the Order?—They have a dairy Impector, and they

the dury inspector take the mechanical part of the one daily inspector take the mechanical part of the work, ruch as leaking after the elevaliness of the byres and shop 37.—Yes. 8547 And the veterinary surgeons look after the success?—If the cownled has not 500 feet of air space

nels?—If the cownied one not over see, an account suggest improvements to be excited out.

48. With regard to highling and ventilistics?—Yes. 1bey 11 87gs Do they notice in examination of the cown to secrious if they are in a healthy condition?—No. 9750. That is not part of the duty imposed on them?

8751. Searnely any reports have reached your Council 85732 Then the only parts of the Dennes and Cow. distract is concerned, are those which refer to lighting and air, and rentilation of the cow-house, and the classifices of the people engaged in the making !- I'es. 8725. Has any application ever been made to your District Cleaned by the Belfant Public Health Authorist for parameters to need some these conditions under which milk sold in Belfant is the conditions under which milk sold in Belfant is raised in your district?—Not that I am aware of.

8754. Han no complaint over reached you that the 9794. Has no complaint over resource you mak an milk reased in your district was suspected to be a morate from which as replaining of infloidous distance had arisen?—Not that I am aware of. 8735. Would you authority have may objection to

1873. Would you archeetly have any objection in have power conferred on local authorities, such as the Public Health Authority of Belfish, to seed their aspectors into your diretted to secretain the conditions under which milt; is produced?—My Comed consider that; if the Belfish officials, and our officials, dates were overlapping, it would tend to confusion, and negati

2016. Do your Council consider that they are dis Size. Do your Conner consider that eary are un-sitinging their dottes in regard to the estimatestical of the Order when they make no excenitation of an econy to see that they are in good beatth and sheely to produce sound, beatthy milk?—I example my that. 8797. I suppose we are at liberty to draw an inference from the fact that they have not imposed that duty?-

I suspend you most. Sign. What duties do these reterinary impertors position?—They import the covabels to accordance that the space, light, and vocalistics are in accordance with the provisions of the Order, and if they are not they make recommendations and see that they are

8779. Does the Council support them as seeing that recommendations are carried out?-Yes, and

8760. And have convictions been obtained?-Yes, we save had been.

8761. These were on the question of light and surspace?—Tee. 8762. Would your Council have any further objection other than that stated by you, that it would lead to overlapping and confusion if the officers of Belfast city werninging and command if the officers of Bethas only wret into your district to assertion the confidence under which the risk is produced?—I have heard no other objection put forth. They might. 8783. If they had, it is unspoken?—It has not been

set forth. 8764. And you have not heard any discussion on the gravitat2—Well, I have heard a discussion, and the purson was no I have old you. 8763. That it would lead to overlapping?—Yes, and

connector.

8705. Is there much butter-making sarried on in your district.—A good deal. Two hundred and fifty, one persons have been regardened as selling new milk, and I should now that the selling new milk. In I is second say was not contra at make source in a statill way—the small formers.

1970, Is there no inspection imposed on the people exposed to bestire-making there?—Nor. 1976, Is registration enhanced apoint them?—Nor. 1970, Haw your Country outsidered the question of sono, Have your commit commerce the question or horning durymen?—They have not, 8770. You yourself have not considered in?—No. I

have seen it suggested at this Communion, but I have 8772. And you are not proposed to expens may strong for or against it?—No. 8772. Has the establishment of recommence to your district tended to decrease the supply of fresh new rells available for communication?—I do not think it has. The

to weet mile is it were me for the commence. \$773. And would these districts he wishes a reason-shife distance of fields to by said?—Well, there might be one or two of the larger conference who send their mile to Beltan, but few the from the districts where semote from a railway station?—Our is a good deal removed from a rulway station—in tast, both are. 891600—in rast, tools are.
8975. And probably that had something to do with an entablishment of the creameries in the distract?—

8796. Do you know if nells is sold retail in these organization. I do not know. I think the separated milk is taken home and used for feeding proposes. 8777. Is any solid for human consumption?-Not that 8778, Mr. O'Hann,-What see the names of these

87.6. Mr. Crane, whose are no one commence?—Turnightune and Danasae. 8779. The Creament .- Do you know what price is 8790. World your Council be re favour of having the provisions of the Order imposed on all those empoyed in the home-decrying and botter-making?—I believe

\$751. They think the Order should be applied to the sale of butternells as well as sweet mile?—Yes. \$183, You usual be rather in favor of a scheme that would provide for loans for the improvement of con-lyres and the establishment of milk storus?—Yes, that the effect of the Detties and Coresbeds Order in that much farmers, when they find that the provinces of the Order are going to be upplied to them in con-pertion with the sale of their suff, will resert to butter making at home, where there are less restrictions

unanisary constitues. To recordy this state of affairs I think (does rapervision is necessary, and that in the one of poer farmes, say, sader 200 Poor Law what-tion, were franced anastance should be given them in the way of lears, reposable on easy terms, by the puspose of provailing healthy coverage or milk stores. 9783. What man loom do you refer to, because the Hourd of Works make posytrator for the advance of loom for the improvement of cosmods on holdings of a concernite size, dealing with a manistum application of Bo you contemplate smaller loans than \$205-1

would contemplate loans from \$10 upwards

SIBA. Do you think that some people who would need loans would probably not be able to offer security for the maximum of large semi?—Eve; in some cases the small famour might only want a loan of \$13 to the manu tailor stages only what a loan or 215 to improve his pressive in provide a milk room. 8785, Are there may shape in your district for the rotell of milk—in the town of Austim?—I know of

8786. How as the town supplied?-Milk-earts from seepers in the town who sell mill: in the town.

8787. At what price?—Throupence at persons in
Autrim is the ruisal price, and in the summer twopence-

Anthem is not retail price, and in the summer two pence-halfpenny, and sometimes two pence a quart. \$258. Does the same coston prevail in Crumbs and Bandelstown S.—I folials so. 8789. And there is no difficulty on the part of the habstante of these towns obtaining a milk supply?-None that I am aware of. 8796. And up compleints have reached you thus the

tababetants have been makle to poorne milk even si they had been able to buy 11%—Noon. 879t. Mr. Winson,-In regard to the question of

the rural districts in order to inspect the under which milk supplied to their suga is produced?was not aware of that, 8002. In fact, it is the usual thing, one might say, sross the Channel, Would you not think that thus

would have nome reflorance on the remain of the Corner 8795, And from the point of view of authority, would you not consider it unfair to the dairyness working within the caty erea, that they should

be compelled to produce rulk under certain conditions. whereas their rivils who sell milk in the seme area better if the

8794. What authority do you picture to yourself that could comed the local authority to do that?...The Local 8795. In the case of members of the Cornell who are largely engaged themselves in the trade, do you think that they would legislate against their own

interests?-In our district I cannot my that the members of the Council are largely interested in the We are looking at the thing from the point of the general situation. Would you not agree 8798. We are looking at the thing from see point of view of the general situation. Would you not agree that where the fammers throusdron are in a majority in the local authority, it would not tend to very efficient administration of the Order?-I discuss in might not 8797. I see you have already expressed the contries-

that the Order should be copfied to those who make 8708. In other words, that any preson engaged in the of now-keeper should be mapreted and rems-8790. Are you familiar at all with the system of Agricultural Credit Banks, at which smell farmers Agricultural creams assume, as where the control obtain losses?—I can not.

8800, Mr. O'Buns.—In your district a district of small farmers?—Yes. The majority of the district in

8801. I think you said there were two hundred and fifty-one regustered sellers of milk in your district?-

8803. Is that including the creamence?--You. 8808. They must be small creamence, or is the whole trule in selling confined to the ereamence?—The majority of the trade of selling is confined to the connection. The larger owners send milk to Belfast, to un title towns of the district. 8804. So fir as you are aware, these creaments do believe all the separated milk is taken back by the farmers and used for feeding purposes.

8805. You know there is a creamery in Anteim that bee a contract to supply some asylum with milk?—It 8806. Miss McNrzz, How long is your dary mapacter appointed? We had one before the Order of 1906—from about the year 1876 or 1876, under the old

8807. What ere the qualufications that your Council 5608. Had he been engaged in the dairy himself?-Hie father had.

#### Mr. ALEX. LAWREST, J.P., examined.

8805. The CHARGENS.—Are you a member of the Andrean County Consett?—Of the District Council. 8810. What your is entertained by your Council with report to the Darma and Cowkhole Order. Does your Council think that it leads to milk being raised and produced under conditions that are satisfactory from the public bealth point of very?—I think they do, sir.

8811. I understand from your Clerk that you have not put into operation the parts of the Order dealing with discuss amongst the stock?—There was a divinor of opinion in the Countil—a good few objected. 8812 Did the majority object?—They oversuled

these at any raje. SHIR. I hope there was a substantial minority in favour of doing the right though-I think there was. 8854. Is there may hope of the question being risted again?—I rather thank it reight by, I do not think 8815. Apparently is would not improve the expense

very much, because you have already two veteriousy memoring appointed?—Yes. 8816 And it would seem that their time is devoted 8817. And there would be no difficulty in the course of these visits in making an exemination of the duary stock in order to secretain whether they were in a healthy condition?-None whitever, and a cood many of the farmers would like it. 8816. What is your personal vow?-I would like to

8819. Are you engaged in the dairy tends?-I was, 8820. When you were engaged in the trade were you reling in milk to Belfast -4 was. SSGI. And a good many of the dainymen in your inglibourhood are doing to?—There are, package, siz. SSGI. What would be their view with regard to the some what would be their view with regard to the apphasizan of the Order Scane of than would depect. 1802. Do you subscribe to the view that has been put fewered by your Clark that there is no carcety of sills in any part of your distinct—None whatever. 1802. You would have no objection, as he say you can not, be the greating of licenses to those engaged in

56025. And you do not think any reasonable men 8800. Do you throk that the working population at 860). Do you thrux that the working population is your neighbourhood provide a sufficient quantity of multi-for their children?—As far as my own neighbourhood is concerned, I only know about the near who work e me, and they got milk from me, and have goate.

1887. There is no scarcity smonget them?—Note natever. 8828. Do you think the inhabitants of your district

approximate the value of milk as a food for their ethidran?—I do not think so; but the children in an neighbourhood get practically except of milk, because if they have not meany to buy it they get at from the

ference.

8629. Is the milk part of their wagest—In scene
cases, and in other cases they pay for it.

8830. Some farmers will agree to give their labourers
a part or a quart of male a days. Yes. HEST. Others, if they do not agree to do that, will reli-malk to thum?—You. They collar give the money or

Mr. ALEX. LAWTHER, S.F.-Mith Pobracy, 1912

\$802. What is your opinion as to the health of the dury stock in your distinct?—I think it is fairly good. \$803. Have you head of any leaves arising from tabecoulasts or licinfed misdates?—Very ins. think there are very few cases of tobecoulous in my 9806. Of course, your Council has never entered the slengifter of any animal under the Ao49...I do not

If they have no suspector appointed for the purpose it is assuredy possible.

833. Dr. Moonneau.—Have you many Union colleges in your distance?—There are one functed and ifts one cottages altogether, and there is a scheme of

sity cottage in comes or contraction.

803, How do the competen of these cottages get their milk signify—Free the transva.

8037, As for as you know, there is no seasonly of nilk in your distance—No.

8388, Have you to titled any deterioration in the quality or milk-giving properties of the contraction of the country. not give as large a quantity of milk as they did thurty years ago, and they are not as good cowe as they were. 8809. Are they as well fed as they used to he?-Yes. sain. At what price would the sale of milk be profit able?—I was getting anymore a gallon for it, and I had so pay a haldpenny to the rulway company for the corrage in summer, and I got eightpence-halfpenny to winte. I thank it was too brills.

894L The Champan,-Xon were selling to retailers in the city?—To wholesde men. The railway com-

Mr., Joses, McCleric Burry, M.Sol.v.s., commond.

8855. The Charman, You are a member of the Veterinary profusion?—I am. 8855. And you hold an apprintment as veterinary nunctor to the Bellint sod Castlereagh Roral District 8857. Would you be good enough to tell the Comm. the coming of that Order into force, I was appointed by the two flounds printly to enderce its previsions in

5808, For the two Districts S-Yes.

5800, For the two Districts S-Yes.

5800, In the near you have to ower very large SYes-the two rural districts of Bellian and Castle. 8860 Mr. William, Perhaps you would point out the boundaries of the two Rural Dastricts on the may? —I shall be gird to do so. (The witness then pointed

out the boundance of the two rural districts on the 8861. The CHARLEMAN,-It is a very large area?--Yes. 8800. How many cowy are kept in that area?-That is a thing that as continually varying, but as far as I can alternate the average is about \$500-that is in

regatered dairies.

89%. Is regateration imposed in the district?—Since I have gone there it has been enforced as strictly as we could, and I have no reason to believe that there are only large district which are not registered. 8804. Do you find that the owners of these daines eeos. In you that this the owners or these defines not ready to conform with the requirements of the Order?—In some cases it has not been our experience. 8865 But to bring them up to your stradard is difficult?—Yes, and we have numbers of protectations.

mirrar—144, has we have numero or processions.

8922. What or operation olds you rootly from the
magnatumal bench?—15 warred with the district. I
have a fast here of the proscostices that have been
instituted by the two rural districts, and I find the
highest pensity was 30%, and 30%, code against a
daymous who was posteroided at Whitestabey. 8807. For what?-His premises and cattle and their

adders being dirty. 8888. Would you say that penalty was sufficient?— I would say that it was atking them to go on and do it

again. It was shourd. 8999. Do you first things oven more unnatural totally a other district?—In many cases the first were only one shilling and costs; 2a, and costs; 7a, 6d, and costs, and in some cases we had to withfraw cases on pay8842. The rathway companies have a graduated scale for the earnings of milk?—Yes. 8848. You might send at fifty miles for the same 5808. You inight send at fully tillow for the series 18019—1804.

8646. Do you thould sty use of sightycous a gallow 18046. Do you thought style of the series 18046. On the opposite 1—200 would have at all sexposus. 18040. You quidd live our that?—I see. 18047. Mr. Winness—According to your knowledge of the databox in which you live, has the endoverneed of the Duples and Combinet Other dimensional the self-

put of milk—have any formers gone out of the besizes-by reason of this Order being put min operations.— Not that I know of. I think there is one in Antenn 8848. It has no commercial effect on the milk

880. I suppose you get an occasional "piner" in your neighborhized?—Ten 8800. What would you do?—Put them note a bole. 8861. Do they go into the Brifasi market?-Not that I know of My own way of dealing with them was to cut their throats and put them into a hole when I 1802. Here you suffered great losses in that way?-

Only two owns, and I put them away. 8863. Mr. O'Russe.... You were selling stell to whole-8854. What did you get?—Shapence in the summer and eightpence-halfperny in winter, and I had to pay

8870, Such penalties would certainly be no deterent to others?—Well, not only that, but looking at the matter as a sandary officer it seems to me that there man can save 20s, a week (a man's wages), he does not man can save 200, a week in man a wages), he does not mind paying an occasional fine.

\$801. They don't find any odious attending in a pearing in Court for hereighest of this Order?—Meany secon to be the only consideration in the market, in my opinion. The publishmen of the cases ecess to have

openies. The purchases or the conveners of the one floor.

8672 Man McNana,—How would a man like that dispose of his multi--In the two districts which I speak of, the purches in 16 per cent. of the cases to thus—the darryman produces this milk and with it to a wholesale or retail man, who lifts it at his deeps.

permises.

8873. I need healty ask you whether or not you would be in favour of honorang?—I would go further than that as the result of my experience. Under than that as the result of my experience. Under the provinces of the Order of 1968 the Local Authority 8974. Regardless of the condition of his premises or 8874. Regardless of the conflicts of its premises of character or sayshing der6-Tes, or we have no power, in the cents of a piece being lept in an intensary condition. The only remedy the Smitsry Authority has is so take him to the Petty Sessions Court and has is to take him to the Petty Sessions Court and fine him, and he can repeat the effects. If that some were herned we could withdraw his herner after a certain number of officees, and in the event of his centimizing in the tends we could take original pro-centimizing in the tends we could take original pro-

ceedings against him.

8975. You would withdraw his homes in case of re-neated offerent — Yes. I would not allow him to poison his neighbours. Of course, as it is, I would like to make it clear that I am dealing with extreme cases, but I am taking it that there is at least one of these tions must be sufficiently comprehensive to cover that

8876. The law should cover the greatest delinquests?

—Yes, Speaking generally, the delicytoon throughout
my two districts have responded well to the Order during the past three years.

8677. Speaking of them as a body?—Yea. During
the past three years numerous alterations have been

one pears some years numerous attendions have been made by cowheapers. 18678. Here you had much difficulty in inducing those con-leapers who were amountle be the provisions of the Order to undertake alterations that extended con-takerable supposed—In some cases, ser. There are some parts of the district, undertaintedly, power than

Mt, Jone McCarra Banks,-18th February, 1913.

8879. The greatest difficulty arises as the poorer disinstant—Year.

1880. And there are some of the fraction very smally—Not as exactly, as I could pother from reading the entidence, as ever the read of the country. The average would be short trailwoopen, 8881, And you would not have many with only three of four—No. J. Ified if a daily has less that her coars,

would be short treaten cows.

8881. And you would not have many with only three or four 8—No. I find it is short just less that the cows, the people would generally chirat.

8682. Would you upply the provincess of the Order chiral properties of the bester treate in beans described.

-4 have been andesveuring to do so. 5883. Mr. Winson.—Without eitherity?—Yes. 5884. The Cananasa.—Wordh you be in foreigr of making it whintor; \*-4 may of operate that it is a further of its greatest impact to the security, fet this renone-sweed suffix as renoved immediately from the premises; bettermilk is gathered for at least free darm and re.

wood milk as removed to use selective, the this removed the surface of immediately from the perentise bettermilk is gathered for at least five days and a makes in surroundings assistance or insuritance for period. 8880. And is respond to areater contemporaries.

8886. And is exposed to greater contemination?— Yes, because it is baselled more, and we all know how results bartier care take a divoyer colour from its surroundings; as we may in the North, "the better has a took," and I think for these reasons I should cuffece the provisions of the Order with regard to the distynam.

dairyman. With regard to the stock in your district, do not find penarmly they are healthy or othermes?—

With regard to With recount yours digitizen have found meaning the Within and does not pay to buy a second class animal. See that it does not pay to buy a second class animal. See Animal Properties of the pay the but they buy to second class animal. The world not go no fire as that, but I would say that he may the but class of opinion the one effort, and the tops the best class of opinion the one effort, and the

one of the great and that, but I would say that he can be caused in the case of calife me any discost with compact forwards when you have not been compact forwards with any shock me say of the interpretate to the case of t

Delta season attention, used the ploque were returned to the consideration of the consideration of the consideration of the consideration of the return of the consideration of the return of the return of the consideration of the consideration of the return of the consideration of t

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approvision. We up took a supposed cose, may as the little distribution of qualitative rate sailed from the city, the little sail of the city of the control of the city of the control of the city of

shot. While between the resemble. The cells with the best of the resemble of the Properties of the Self-resemble of the Properties of the

8805. The present law will not recomplish that onposits—No. From white I have some, the cone with wider-inform solder in a very good somes of denger. A recorded at a living numeratory of tolerable berlin-8600. Here samp cases have you discovered of tolerators, and the sold of the sold berlin berlinsed to the samp cases have you discovered of tolerators, and the sold four mirroris destroyed market there are have held four mirroris destroyed under the \$200,000 personnel of the four law of the \$200,000 personnel of the four law of the \$200,000 personnel of the four cases and \$200,000 personnel of the four law of the \$200,000 personnel of the four

sport. When the below of critically obtained, not a consport. When the below of critical points of the concept 27 lbs, the chief below I relead have not all cost 427 lbs, the chief below I relead have not perlated to the chief below I relead have not perlement of 210 only large disorders to the effect below with this harmon's of the inspection, to give such some processing at the things in semestate and post—from an processing at the things in semestate and post—from an processing at the things in semestate and post—from a processing at the things in the contribution of the contribution

did not, I am afraid that we would have more tuber culcus sees in our district.

8600. The suspicious cases would cose the border!

8600. Supposing the havitation was writhing at cream, and authors of consultation entroused by a cream, and authors of consultation of consultation of consultation and consultation of consul

9906, Do you not think it was rather a hardsing that the result of the r

800. I do not suggest this it should be upplied to any single district, but what I would schunt as their for those engrand is corrying out this Orier, like yearself, if they know that they would militis no financial loss on the owner of the annual it would give them courage to carry our approach years provision of the Order?—It would.

800. If the owner of the eew happened to be a poor may you would have across bestation in ordering the shapping would have across the same accessorable each firm to impose on an officer than angle a delay as the interest of the contrastity is height on the latest of these interest of the contrastity is height on the latest there is another point that criters into thus. It is particular was that I have in may mixed we get the rear particular was that I have in may mixed we get the

9997. Le a searming from in every conference of here the coldite are and governity or insurance, with signed to their middle. This even in specifies had been one of the control of 420 from the Dandrit Consoliment of the control of 420 from the Dandrit Consolicio as the control of 420 from the Dandrit Consolicio as the control of 420 from the Control of the Control of 420 from the socially to their light proceedings or soft Larmin by 9989. Dr. Mocuman.—Was the white discussif-

No. 3000. The CRABMAN.—No such coaten of gring; surrantly persists in Dublis so fite as I know, and I know over board of an annual being returned and the salter surd for the less. So you see, the application of a certain condition or ensoint persisting in certain distributed would vary and vittons the administration on other distribute where the same content fit for persisting the content of t

We Jam's Williams Barnet,-16th Pelevary, 1912.

5076. So that it would be better to make it universal?

—Yes, I may in liveur of groung the farmer file last
more record to the second of the last
more record to the last of the last of the last
more may not be fooded with tobercolouse collect
more file and the last more than the more desirable
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suffers ?—Octuarly rot.

MDD: On whom various manages that representitlity?

MDD: On whom various manages. From Boldest and
Considerantly a large perfects of the raty milk tought is
derrod. If this red was uncide as you suggested and
cons senses in Boltant iterate and Considerantly Board
owns senses in Boltant in the Considerant in Co

SHIR YOU have but expering on the question of 95%, they is, to who chealed pery—Tee. I filling 1956, they is, to who chealed pery—Tee. I filling the bedth of the lateoure in the North and in the South should be of equal consideration to the Soite. The pien you have outlined would be of finding presentance on a poor faithful, whereas it this congruentace on a poor faithful, whereas it this congruentation of the south of the south of the south hard one share.

807. I can not advocating any plan us to the score from which the roosey would come, but I can discretely of opposes that it is infair to the members of the root was the root of the root that the root of the root is saufficial for the notife good, they after adopt to the victime?—II do not I can set the root of th

seasonle.

Sight, Can you copped stay reason why there is not belief, Can you copped stay reason why there is not belief, because we have hed the figures how from the Vettermary. Inspected of the city, and they decides the less that [1,000] cover are shoughtened in the shotter to the first the contract of the contrac

proportionally with the increming posspority of the various of Belfast, 4620. Are the cover this are kept in your district 4620. Are the cover this are kept in your district without for epited only and shen shoughtend, or are they been from and legit from your 6e year?—The probate provide accough those engaged in the day probate provides accough those engaged in the day ing the a sald.

6921. They don't keep them for a moond or third

sect. They one's went them for a monoid or third author-the most web produces better does. author-the most web produces better does. Sect. Do any of the people in your district keep sect. It is becoming more generall—I think it is even less does than it was. 1924. Why that it is becoming near the produce of 1924. Why that it is considered as no greatforlating that, and I hemselfy believe also because the mostlyping former was aluquated with his recode, as he

Partir that, and I homestly believe also because the including the former was alugated with his records, as he found what he regarded as the worst cow in his byes giving him most mile.

1925. Dan't you think after all it would be well it he know where he should—Yes.

1925. I gooks understand that the Man pervalls that

1991. I quite understand that for idea persulls that 1991. I quite understand that for idea persulls that manches is a good uniform, whereas the results for a steady flow for eighth or same mouths is better between the wide is as I have added—that they one 1992. Mr. O'Brauss.—The same thing has happened in Lamerick—that the Intenset were so disputed as the thorn own jedgment being above up-1 long giving that one of the control of the control of the control of the mention of the control of the control of the control of the mention of the control of the contr

yet the results of my own to be relief and syring yet the results of my own observation. See Mr. See Casaman—the the calvess maked whose they are hed?—They are server count in a sweet milk farm; they don't keep them three. They may buy a cow it could, if they counts got one recountly calved or

just about so calf; har culves are not reared in our distract.

\$600. We had evidence as to the large number along there is no the about the standard from those to tim days old. That must be \$1.00 km, \$1.00

900). Yee, he give on the particulation. With regard to the multiple doct powerful, by you which the yield of milk has necessed on them. The your which the property of the pr

SSEE ACM MCCATEL.—To us don't hot lost it is intracted by the optimize two laws experience—blass color channels by the optimize two laws color intention of the optimization of the color intention of the color intention of the color intention of the color intention of the color instructural two laws color intention in the color in-

Soid, Into Contracts—Carde you much unnearly in enforcing the provincess of the Order wilk regard to clearshment?—It requires countent appearances. 5984. And no amount of logislation without impetion will ensure the strict observance of the rules?— No. 8005. Your numbers, I take it, is an unqualified men ——Infortunately bo in dead.

1934. No can but bon appointed stoot—No.
1937. It is not extended to the appointment
should lapse—The idea of the Grandi was that they
abould retain row as full time effect to do the whole
of the week, as they never of opinion that they would
the stood of the contract of the contract of the conplete of the contract of the contract of the
same lines as the last imposes. The contract of the
1933. Is if by the approach of a dust salary by the
two District Generals—Tales, we so the proposition
to be pair by each—I don't have.
1934. Any ship of districts underso its contract
to be pair by each—I don't have.

ir 8991. Are their datajetu uniform in unos—The Belfund Rend Bleiterië ja se there it so tore compared with the Cautierneys district.

8901. And the number of cown would be even begre effily—Tes.

9902. Are you in any way restricted in the administration of the Order by the feeding manufested by members of the Council towards individuals—Thais in cre-

the two Boods more than elsewhere, say, in the City of Bellout.

MAX 1 dun't suppose that you have get a double does of origital sin in your Commish?—I am githe will. ing to almost that legislation for sharpon by delaymen

8644. Do you think that the admiratence would be seen efficient order a central than under a least activative?—Yes, 6845. Too would be in invoor of having the Onder 6845. Too would be in invoor of having the Onder 6845 when the Control of the Con

a outsid lood, such as the Department of Agricollary, the selfoot the provincing all the finite from First Head in the selfoot the selfoot from First Head in the self-out from First Head

Health Authority on the first swellule appreciately of the preserve of densum in its belof—"hill it would work be preserved desaum in its belof—"hill it would work exacting successful the designees, their fraulists, their multipose of their fraulists, can suspense the duty exits, sufficielts to be much sincer to the Executive Statitor of the superior of the Executive Statitos the executive Station of the Station of the on the executive Station of the Station of the superior for—the registered delaymost; the desice who might be in a detectables; the vederinger superse who might be as to attend the superior of the superior of the servent would relied and aduly the rankers of this servent would relied and aduly the rankers of this servent would relied and aduly the rankers of this servent would relied and aduly the rankers of this servent would relied and aduly the rankers of this Mr. Jone NoClause Banny.—18th Privatory, 1912.

a for surce/said, in the same veg as, in exper instruce, medical positrioners are peak of for. If that system of notification were enforced, it scould exactly the incon with table trouble is initially reconstruing against the owner for containing the properties against the owner for examine the cauges that may arise from the containing the containing the containing against 808-X and these see the continuous you notif into 808-X and these see the continuous you notif into

pose?—Yas, with a beary fine on the Decire or Veterinery Stappen who would not notify. Thus is such a sections thing that urbase it is done competedly it is best fell alone.

Staff, No good results will fellow from playing with it?—I think you would do harm, because you would teach the people to hole it.

shift. No good rearbs will fellow from pleying with 17th—I thank you would do britten become you would 17th—I thank you would do britten become you would 17th—I thank you would be thank that anything was 17th—I thank you would be thank that anything was 17th—I thank you would be thank you would be. I have then the week would be thank you would be. I have of them had been no helfed. I would be thank you that had be the other case do not think the work 17th—I thank the other case do not think the work 17th—I thank the other case do not think the work 17th—I thank the other case do not think the work 17th—I thank the other case do not think the work 17th—I thank the other case do not think the work.

is an unique today transfer, once to see a gration that the WOLT, There is no risk white transfer than bales with the same of the WOLT, There is no seen as the WOLT, The way consider step of these is some of BOLT. Be yet consider step or of these is some of BOLT, the way that the work of the w

tainly.

8000, Do you think that happy sometimes misse a feet of the emissible from these forces!—800 if spoopedy had, the misses from the second of the control of the emissible from the second of the control of the emissible forces are delicated to the control of the control of the force some of the cores suffered from houseman's hand-Too forces forces are forces. I have hapf as eareful watch their pine past forces. I have hapf a careful watch their pine past forces are forces for the core of the core of brings for miss forces for one of the core of brings for miss force due to do not only the forces of the core of brings for miss forces for one of the core of brings for miss forces for one of the core of brings for miss forces for one of the core of

10 community of the control of the c

seve. Dr. MCOUNTAIN.—You had them certain concitions with regard to applying the technetical test.— 19020. And the first condition was the condition of the solvand at the times—Wee. 8600. I procume that when you must an azimal fargrow it would be not been you have been a sained for

6600. I processe that a been you proof as marined for yours II would be toucken to apply the needs. No. We grow II would be toucken to apply the needs. No. We I mount west them—you derive to apply the feet to a beathly belong nutried. Before you proceed to push have frequently from that he maintained that no internal have frequently from that he maintain the national large pushing—the example, at the beginning of a shift and the contract of the proceeding the common of the state of the contract of the state of the contract of the contr

8060. It is a temperature test then that you apply to the animals—Yes. If the disease is advanced to the peint that it outli be determined by a tenined observer I don't think that in much-min cases out of a insuderd you would get any reaction from the tribu-

observer I don't think that in marty-nine cases out of a incident year would get any reaction from the tubuicilia.

8983. In the case of a healthy looking suimal that the re-notion?—I profee to judge by the pert-morten examination. That as the only thing you can speak definitely of. 19964. Have you over tried any carative technical in the case of testerothesi conve?—No.

the case of twherecolous cover?—No.

8860. Have you hand of it being treed?—Yes.

8860. But you have never took it yourself?—Xo.

8960. We have had it in evidence that repeated in
pections of toherecolis have been titled with good pe
solids?—I must certain that the more I see of taker

colleges and the report I state it is need from the

coloses and the more I study its scalifors the loss I appear to know about it. During the post time years I have showly studied tobecomes in cuttle, and I appear to know how about it now comparatively than I did then.

868. Would you condern a carrant for "green" y-Xee, and I may say I am to cuttle appear condent as

I did then.

9808. Would you condumn a careaux is: "grapes "9

— You, and I may any I am in custive agreement with

— You, and I may any I am in custive agreement with

mean supervisory of "construction on the question

18209. I select that you give us core of the reasons

18209. I select that you give us core of the reasons

18209. I select that promise of the subsection say,

18209. I select that promise you'd would sent to be major.

18709. And then the satisful would would to be major.

8971. Weald that convey to your much anything the eneming a sunfacture for those artenials—Vers increasing a constacture, for those artenials—Vers increasing a sunface and anything and the part theoremsic solutionical and shangling out the setting entitle.

8972. You say that you may have an entimal that is not and not be able to socretain that 8—I and not now for gree yet or impression at their land. The impression of their land with and. The impression of the land in the land.

to give, our on impression of that land. The larges size I varied to covere, var that in a satisfied age officed district it is difficult to give this subject in collected district. It is difficult to give this subject in the level rules, which is a large of the subject in form a take opinion. So if projects, or yet me form a take opinion. So if projects, or yet me form a take opinion. So if the projects is a 1997. By our large major the conditions in which the straight for million is a three front—I emond give ye say informations on that point were from the figure 1997. Mr. Witsop—II would seen from the figure

cove in a small care—B is, are several scens Joseph Servi. You see the only predicted out is sufficiently district. Servi. You see the only prediction Dr. O'Nerill and Dr. News greater glorest assistance from Dr. O'Nerill and Dr. News receiving great assistance from Dr. O'Nerill and Dr. News Service of Health. The Act of Puriliarous Is have deed Officers of Health. The Act of Puriliarous Is have deed Officers of Health. The Act of Puriliarous Is have deed to the posterious as high I would like to see them cettery.

670. What small be a now views as to the relation of the Company of th

SPOT. What would be nour views us to the relation of the Mrethal Officer and the Vederinary Respector— I find that if I could centime repeal whelly to the examination of the desiry sattle and did nothing also it would take up all my time. SPS. These are over 3,000 entitle under your charge?

5609. Note engineer entire burne and rotat De Aprotise and I—Not highester. I rotate that the normal internative doese, although I have made the so make it periodity doese, although I have made the source to the Mechani Offices and myself, and I have showed derived the general anishtane from them. What I derived the general anishtane from them. What I are many providence in that Optor that would be better carried over if you had the Michael Others of Beath or durings of this portion of it which influent man, and the Verticancy Officer has pare who is allested

seed. When so you done the has hell and the first state of the first state of registers of the state of the s

Mr. Joux McCure Baser -- Dich February, 1923.

HEES. Supposing that were not possible for ony ma-sion?—Thrancher the whole thing to the Department of Agriculture; it is really within their persons. Then you would have its elimitational as posture of the public haloth currous of this country from from local religions. 5866. At this seems time it is qualry possible that would might have to be seem subhiesed of the world when the be better than the present one, and not not come up to the ideal. A large supply of mife is sent into Bel-iast from Antern; and we had existence that the Antest from Antern; and we had retained 1606 the An-telm Council does not coffere the ventriancy summina-tion of cattle in their district. From the public hashle point of view don't you think that the Buffest Public Hashle Committee should have a right to inspect the condition under which the milk is produced in Antein's

-Yes, by professional men sues. You would object to a non-professional man going onth-I would object to my work being criticised by a vermen who knew mothing whatever about it. Note: Take the Antrin com-would you not there give the Belliss Authority the power to go ordele been own not and interfere?—I cannot see any reason

8007. The CHARGESN, -You have no objection to a qualified man inspecting outside his own ares in the exerumeteness Mr. When her described?—No.

2009, You proognise that there is a wide difference even. You programs that their is a wise difference in the way in which the Order is enferced?—You. There is just one thing I would like to draw your attention to in commercian with this marker. You have breed a considerable amount of wideness in and widely out Bolfost. It is well to remember that the dairies in the County Borough of Bullast should be twenty years the County Boycopi of Briffast should be twenty years about of the stream to for roand districts, for this reason—duting the past townsky years they have had the advantage them, solved to the building laws and the visite of the surface; wast. In the road of the desired that the state of the country said out. The country wast is the country and country said out. with the cruelt that the drives in the orpervision, with the result that the deiries is variety of the city are proceedy three years old. daines in my district are for from perfect, but in time they will be better.

sass. Mr. Wrager,-With record to tuberculosis in sees, ar. Wildest.—with regret to substitutions to still, in your opinion would like the first his a small form with a small number of actilit on it that would be the most thirty did in which to discover the tuberculous azimal?—Yaw, that has always been astile, in Il form

800. Would you agree with the opinion that with-out the assistance of milk records, it is impossible to loops for any importment in this milk yield of the whole of the country. —It is a heaf-amental principle

of any selvance whatever. \$501. You will also agree with the idea that our of the main reasons which is preventing the Bellist darymen from keeping records is because he does not breed from keeping records is because he does not breed from his cowe?—That is one reason; and I have often wandered if it would be possible that, as a result of the continued forced feeding which cattle undergo in ceits that they may yield a good quantity and quality of milk, this system of forced freding from one gazaration to snother has reinted the stamins of our cabile.

8922. You have lay antistance in your district?-Yes. 8993. And you have been trying to improve the datrice in your district?—Yes. 8994. Which of the two of you has the more effect

in induceing the fremer to carry out improvements, the professional man or the layean; possibly you would have both of equal influence—Without going into personition, I would make the statement that the other country. I need not go further.

8905. The last point I want to raise is a more 1803. The last point I wind to their is a more toohisal one. We had richten this a certain forms had four cover, two of which secured to be perfectly hashing, and two of which secured to be perfectly hashing, and two of which appeared to be side. The telescentin teek was applied, and the two that appeared to be III fill only seads, whill the two that secured healthy gave restricted. Tazy were all killed, and of the four arminst the ones which hill not reconst were which the four arminst the ones which hill not reconst were

frond to be full of disease, whereat the minning that dad react were first from disease. From the minning that the full reaches the first from disease. From the provide the first that I all the credisest is have dispreted printy. I have printed not that where the minning to disease, the first that I all the first that the disease of the standard power will be small as power to be well, the too will rereal if to the credit of power to be well, the too will rereal if the credit of the properties. I believe at few world mins in, it is

one.

9995, So that that evidence from the professional point of view was not unposcales.—It was periodly iound.

8997. Mr. O'Bauer.—You have now got prelify good
byes in your district?—Los.

8998. How are they lit in the moraning for the people
who are in military?—All through the two districts.

with three exceptions, the parette oil lump is the light. 8600, And in a byre with twenty cown would that be the case?—You 1000. How many lumps would they have?-They work with one lamp to two milkers. That is hung 9001. Does not that throw the udder of an animal into a strong standow—the part that you want to see clean is in the darkent shade?—I counce my that that is so.

9668. You think on the whole that there is some slight possibility of getting the taker clean lafter militing on a winter meening?—I do, occurally. It making on a wanter meenings—I so, certainly. It the cattle are become in properly constructed stalls it is nine-tenths of the battle of keeping them clean. you put two cows into a stall in which they will give them too much room they will be dirty. 8000. I have never seen say method, except, perhaps, beals, which would prevent a cow from being dirty in the stall?—Your stalls are too wide or that could not

occur.

90.96. I have some sirtly to eaghly come. I have been up at four or five o'alcole in the morning, and I found it responsible to long them also also during the cattle on greenally helded at night in hay or store, and I that they greenally need colon. If the observed one of the solid way to be the solid were pospercy constructed not the outsite have and excessive room they will be close.

9006. We have had some crudence before us which shows that, especially in the crise of tuberculous nameable, the disapper of infection from small particles.

Tuberculosis in that part of the eatth compared with other parts of their scattery would not be our case in a thousand. Nize builded and ninety-mus cases soon. What I rather subjected was that if an amor is tuberraleus at all, and reseing the tuberale bucilli form?...That is exite possible. 9007. You make some mirrator in your summary of originate to the greening of castle. Do you recom-ment brushing the unders—No; brushing always

9008. You think at all avents that there is a fake 9009. You stone at an overse taste the change of getting deta multib—Certainly.

9009. Do you find that any of the propint insure their dumy cuttles—Yes; I have known ossile to be insured, and some of the insurance companies will accept cuttle.

9000. Dury cuttle?—Yes; but as far as I know the promium is probabilities.

9311. There cettle that are insured are thorough-breds and very valuable beauts?—I am speaking of a

dairy in the Castlereagh district with which I am 9002. At a high premium?-Yes. 9018. You don't pourself know anything about the

9014. Because it occurred to a good many peop interested in these motters that it adjust be a way of petting ofter of the most obviously tuberculous cattle to refuse to insure them?—I after thought that it some argumention was got ingetter, to put the even for tuberculouit and against it before the dairymen in for tuberoulous and against to so one on this country, in the same way as the Women's 2 N

Mr. Jone McCoron Bessy .- 1865 February, 1912.

Health Association is putting it before the won we would now some real geogrees, because I know it has been astoriching the interest evinced an toherouleers by the superce full. I would strongly suggest, if it were possible, to get the Women's Natageal Health Associa-tion to extend their field of libeur to admost the farmers and dairykeepees' wives to understand that thus disease is preventible and centagions. So soon as you awaken the preventible and centagions. So soon as you awaken that reteres I think you will have done make

of those cattle 9015. Miss Monaux.—Mr. Witson saked you shoot the key 100pceteer?—Yes.
9016. Do you think that the appaintment is occasionally desirable?—It may be recombinable. desirable?—It may be occusionally

desirable, 9017. Supplementary to the voterinary inspection?

108. Can you suggest snything that would assist one to realise what should be the proper qualification for these impectors?—In the first instance, I think for these impectors?—in the bree instance, a base every by imspector should have a netificiale of the Royal Societary Institute in one of its tranches suitable for his work, and I should make most surching for his work, and I should make most surching a man of unknowled honesty and respectability I would not employ him at any price. I think that the veterinary officer or the medical officer, as the case may be, should be required to report to his Board

concerning the manner in which this inspector corned out his duties. Officers of that type should be appeinted uniquet to the approval of the Executive Sanitary Officer, because he is the man who is on

common ground and one restruct whetever officer is 0019. How does milk some into your district?—In carts, and in some cases in cone by reft.

2020. Are you satisfied with the realway facilities for the carriage of milk?—It seems to be fairly good. for the carriage of hance—it nectes so on many good.
If there is anything arrise it is the facilit of the people who send the milk. I think he milway component have treeted them very well, so far as I know. see milk solvered at the houses by the retulers, a No. Mill. Sources to the neutron by the reasons.

It is quite a common thing, if one is not to the morning, to see the milk at the decreates in a cut without a Bd. That is not see the forcest yets as it was, because I know the Chy Authorities have been very loom on that particular greatest, but it as such a contrast to see the milk sent out in sealed bottles 9001. It makes it more expensive?—In a case of this kind expense should not be comised. You out lift the bubble and see if it is clean. It is very much more to be preferred then malk supplied in any other way The CHARMAN.-We are very much obliged, Mr. arry, for the very interesting views you have placed

### Mr. Jawes Houses examined.

9688. The Chamman.—You are Clerk of the Bural District Countil of Newtownseds?—Yes. 9928. We have but the diversions of having witnesses from your district this morning. We have learned from your different this meaning. We have hearing from them the generations that have been adopted for from them the generation of the house and Coverande Order to the Name and the things of the control of existence you can take that the population of your rearch different and the control of the control o

also notice that you supply milk to Belfest, Donghadon, and Newtownards urban dis-

9026. Do you supply a considerable quantity of malk to Belfani?—Yes. 9027. Has any request been made by the Belfast 9027, the soy request occu made by the fourant Authorities for permunica to go into your district?— They made application under section 19 of the Tuber-culosis Act. The Local Government Board sect the rulests Act. The Local Government Board sent the application to my Authority. The Bellian Authority, their opplication, referred to three duries as been in their equination, returned to three duries as being in my district. Two of those dains were not in my district at all. Regarding the other dury, the non half only perchanced the form, and half only stanted relifing smile two days. Bangor also made application, on the ground of generating the spread of infections to ground or preventing the spread of informous scene, for power to inspect deirnes in my rural district. 9008. Was the power given or withheld?—It was

9020. What was the view entertained by your Council?—My Council opposed the Belfust application, on the ground that the eletements made in the applica the were experies and unformed in in the case of the Benger application, there was only one case of sentiating reported to us from the Benger Recal condition reported to us from the Banger Reval Electoral Division price to thus cotherak of discuss in Banger, and there was no rulk sold form said home. In Banger, and there was no rulk sold form said home. The Medical Officer of Health for our rural district was, also the Mashcal Officer of Health for Banger town. and reported that the infection came from trippers from

Belliar, 9350. So your authority were retained that there was no resionable ground for suspecting the milk from your district as being the cause of infection?... Yes, 9008, If a demand was

9008. If a dermand was rande by the Belfrant Authorities to go into your divitions, in order to impre-tibe condition under which milk is produced, what would be the view of your Council or that question 1— They would refuse the application or this ground, that we do our best to estimates the Order as well-are. as possible.

9063. Supposing the British Authorstica came to the conclusion that you were not doing your best, what would you do under these coromatances?- We would refuse, because we believe that their coming into our district would be a source of continual amongston. your officers and their officers?—Yes, and a conflict between the Veterinary Respector and a layman soming

can understand that a professional man would react having his work supervised by a layman, but supposing the Beliast Authorities sent out ther Yelerinary Enspector, would there be the same objection in that case?—We would still object became a in that cane?—We would still object, because we believe that they have sufficient safeguards, and they bave she the Local Government Impactor. We, as a Bural Cocnell, actually fruited the Local Government Board Impector to go round our dairies and see them. 2006. And you think your house is properly in order at the peasent time, and that you do not need assistance from Bellast, superior as it is t.—We don't acknow.

ledge their superiority. 16the baser supersormy.
9637. With regard to the searcity of milk, we have evidence that in two or three localities in your rural district there was such a sourcity. Have you formed any opinion on this support. I have jou normed any opinion on this support. I have inquiered through the Markan Officers of Health and others, and I fail fleer us a searchly of malk in some districts.

9688, Where people who have concey to key execut

pt it?—That is so. 9450. What are those districts?—Round Carrowdom and Ardmitten, in which there are only two regulated dairies, and there are also other places 0000. Do you state that there ere persons in your district who are unable to obtain milk for money without cases from the medical officers, and I mentioned them to my Public Health Committee, and two of the

to my Public Health Commissed, and two or an incuburs of their Commister told me that one of the privaces could get mills, but he would not go for it at the stipulated hour.

9341. The vonder refuses to have his domestic Well, the voltoe commes to have its domestic strangements upset by having people coming for small quantities of rolk at all bears?—Yes. The greatest diff-culty is in the Tullynskill division. Them are no dairy earts and into the district, and conficued milk in pool

9042. In there a large trade in condensed milk in that district?—Yes, 9043. And you sho say that " I speke to the Medical Officer of Health and he told me that he had a large number of people who were ill, and he recommended rafk, and the larmers very generously gave them the nells and charged nothing for it "2...Yes. 9044. So that in the case of filness there is enough of good nature both to supply the milks—Yes,

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9045. Do you think the dilities of the district get enough of milk?—I don't think ec. 9646. To what reason do you attribute that—is it to want of ability to buy it, or in it became the parents do not appreciate the value of milk as a food?—They don't approximate the value of milk. 9947. Do you know of any means whereby the value of sulk as a food could be most wellely disseminated?— There was a similar state of affairs in the town of Nowtowards, and the Notheal Officer of Health has

for seem the intend a little pumphle, we among the for seem the intend a little pumphle, we among people tend it very moth, and they here now a better appreciation of the wave of milk as a first and the little of milk as a first pumphle has been cheatismal in the offention of this pamphle has been cheatismal in the offention—lets. 1009, And led to an ingressed supply?—I den't know his. The doctor also advocated the making of horn-

1000. Has the number of own in your district thereword or increased?—I comput say. 9001. Since was appropriated posistration has there Gott in increase of decision—a agent binar uners in.

15022. Is there any district in your division where
the absunce of milk is the cause of a real gelevance
to the poorer inhabitants?—The only place I know of
it Sultynaclift, that I have mentioned.

5000. Let possible that in that district people may be selling small quantities of milk to labourers and others without being registered?—I don't behave so. 5004. But the suitleasting of the Order before reconwhile for the restriction of the sale?-I should say it MCC. People will not sell because they do not wish to be subjected to the inspection which registration under the Order imposes?-Yes.

9006. Mr. Wilson, Do you know many who have gone out of business on that account? I know acrea. 1007. Is that in the district in which the searcht-

exists 2... No. 9009. Has any person been driven out of the trade

or abandoned the trade in this distinct where smoothy exists in consequence of the enforcement of the Ordery-No. In one place that I know of these was one man, and he was giving a latte mile to two persons, and he was reported, and the impactor told persons, and he was reported, and the impactor told the consequence. tered, and the man stopped salling. 9059. That was the only muc in that particula district in which, as for an your information goes, the mile of the culk was abandoned in consumers, of the

9000. Dr. Mosessuo,-In tuberculosis a notifiable discuse to your district?—You.

OOG! Has there been any increase or decrease in 137-If you look at the statisties at page 2 of my

figures show a degrees from 8.5 to 1.70 per theward In the three latter quarters of 1905, when the deaths from tuberculous were shown separately from luberouses were shown separately in inc Registers-General's return, the number of double from 1905-06, equal to a death cate of \$ 05 per 1,000 per un 1996-131

1905-119 1911, and three quarters of the present your, 56 deaths - 1.79 9062. The Cameran.—That is a very gratifying result9.—I have taken those figures from the Regultray. General's returns.

9066. There is plenty of milk to be had in your districts—Yes, but not in Tultycoloffs. 9066. Mr. Wilson.—Do the lobourers use goats?—

5000. Supposing you put yourself in this position of the modified officer in charge of Belfins, next you discovered that the Astron District Cosmil shi not enforce the veterinary inspection of the auth, would you not in that case, for the health of the only, be 4000. I will put it to you in another way—would you privest the mile of that district coming into the gity?—You, until the Order was in force.

2607. Dr. Mccarmon.—Do the people object to the rotification of tuberculous?—No. We send the patients a little book containing instructions. I should also add that where there was a case of tuberculosis, sho add that where there was a case of teheroicals, it long before the Tuberoilain Prevention And became two, our General had the house, chiles, ebs., disinfested. An Excourte Saminy Molisal Officers of Health that there is a case of infections disasse, or whan a case is removed to be patient to the contraction of the contraction to be patient to the contraction of the contraction of the of the contraction of the contraction of the contraction of the original before I get the report, I send the man to disinfect the house with formelin, and to true as the delbes worn by the petient, and all the bed-flother, etc., to the steam disinfector to be disinfected. As the same time i until a motion, marked "A," to the the same sine I true a nonne, married "A," to the Sanitary Sul-Officer, as the responsible person who has to see that the orders are obeyed; one marked "B" to the person disinfacting, and one marked "C" to the head of the house where the person suffering bar

from, or who has been in contact with the nerses suffering from infectious disease, as forbailden to or to handle milk vessels, and the Senitery Sub-Officer rists to see that these orders are complied with. only thin, but in the case of a person who day not attend to these mattern, we have taken legal proceedings, applicat him. For matance, a most near Dandecelld did not attend fully to the directions of the Council, and we joused a common against him, and he safetsied the Council meeting, and accurate the Council desta the was not sowned of the previous of the notice. When a posture is destined as heave, is other in sent to the head posture is delived as heave, is other in sent to the head " It has been reported to me that.

an animate of your house, is suffering from or any lood for human nonsumption. Of course, there is a severe penalty for any person who offends around any of them points."

9058. The CRAMMAN,--I slo not think it procurary to this you through your entire avidance, as we have thready had the adventage of hearing other witnesses from your district, and, of course, we got a good deel of information from them. We do not think is necessary. therefore, to go over the same ground again with you? -I am assess to point out, with record to the carry

9000. Mt. H. L. SERNOLES, Food and Drugs Impostor under the Bellist Corporation, siddressing the Cor-mosson, said.—Mr. Chairman, I understood on interession has been conveyed to the Commission. insperision has seen correspon to the communication with regard to swork suffic, that in code of a sample contineining only 26 per cent. of 1st, we do not take any octoon in that case. What I know to see was than if the millionary provious chorester was good, and if we tound the percentage eligibily below the shandard,

### TWENTY-FIRST DAY.—SATURDAY, 17th FEBRUARY, 1912.

The Commissioners resumed their Sittings in the City Hall. Belfast, at 10.30 a.m.

Present:—P. J. O'NEILL, Esq. (Chairman); Miss Margarier McNeill; Sir Syrwari Woodhouse, M.D.; George A. Moorhead, Esq., F.R.C.S.I.; and Alsc. G. Wilson, Esq.

S. W. STRANGE, Esq., Scoretary

### Dr. CHARLES O'NEEL exemined.

MOTO The CRITICISCA—Now we Specification of MOTO The CRITICISCA—Now we specification of Methods to Extend the Criticisca Control of Methods Control of Methods (Methods of Methods of Methods in that distinct)—I do not thank as, seen reader of the Criticisca Control of Methods of Methods

Helywood.

30%. With regard to deadliness, do you find that
the liables of the people are exertif with regard to
their civibers and heatist—The power people are caretime.

30%. Have you brand an embresk of four to milk
m your distriber—Yes, we had typhid.

30%. Did the Public Hedib Authority sack power
to import the pilece—No, they give some core
to import the pilece—No, they give some core.

wast. Did the Pilitie Heldin Authority sack power to impose the place 3—No, they guit came out. 9986. And no objection was made?—No. 9986. The Courod, so first as you know, so not extens any feeling adverse to the right of the Bellies Authority to go out and see in what condition the mile is produced?—I think they have a perfect right, and, pensonally, I would be gish to use them.

personally, I weefel be glak to use them.

(609). I am not speaking of your even feeling, but
the feeling of the Dashnet Commits—At draft they were
the brackets of the Dashnet Commits—At draft they were
the brackets of the Dashnet Commits—At the whole
the brackets of the personal the property of the property of the
when they fail there has not the cause observation, and
when they fail there has not the cause observations.

at first unirestand the object of the inspection, and when they full they had not the same objection. 2009. Are any milk records kept in your district?— No. 9099. Would is not be unstail?—You. There is an

commons assemble of young outlie all over the district. They sowe breed from them at all, peablestly. 2000. They only milk them for one milking people, and then fasten them off—Lee. 9001. In a district seath as that the alvantage is not

gwel, In a districtor seads as that the adventages is not applied as apparently because it is not by by Perspay the quite as apparently because it is not by the Perspay that a sead of the Perspay that the perspay that is not one and ready readile while if all is good cover. If you had a good close of one people wentli keep her. 19602. Tear there is this, that it is an animal had established a good record as a milliory, a market could be frame for boy, and the world piese into the hards of one who would be likely to keep her far a hards of one who would be likely to keep her far a a hermatokee welfare.

a termonicos wastago.
2003. Has your veterinary inspecte over consulted you shost milk from teberculous utfors?—He dose, but I attent chiefly to the vater supply. He looks after the cettle absolutely.

1094. Is there an effected water apply to the district N-Ces.

10033. And one reasonable Justifices made for the concept of the ventorial positions of these decoming of the ventorial positions of the concept of the c

a lather, to the main highest both-flower of the september of september

coas of outlet?—Los, it beam that is we.

of the coast of

Side. You can entousy or equation trains as sequences of the property of the p

note go to all the decrea-9111. Is there say other question that you week! like to direct the attention of the Commission to. Dr. O'Nell? Do you ske any interest in the family business?—Yes. The bulks of boday are not of a milking steam. Could are giving loss malk than they did.

9112. So that the durr owr of to-day is a New

The state of the s

9116. And who would you suggest that person should be?—Barne person under the Board of Agriculture. 2117. This less would be only for persons supplying the mult?—Yes. 9118. Whis sendond would you have?—The pensors sended in fair, but octainly I do not think it should be noticed.

na records.

9119. It there much beherevious me nation in your distincts—No. There is a good claim of castle in the distincts, and the hyres see very good. Some byres are better then what the Order requires.

910. In telescopies perusion in your distinct amongst human beings—No; it is no agricultural. 9191. And a good milking stram in the cown is what you want?—Yes. 9120. Mr. Wilcon.—Are you of opinion that the Durine and Cowshells Order has reduced the quantity 9123. You are not sequented with any large number of people who have given up the husiness in one-9124. And I gether from what you said that there

has been a marked improvement in the condition in which dutry critic see kept in the district.—Yes, 2228. Within three or four years?—Yes. Every your they are building new hyres, and they are building they the strong were necessary to the strong of the Strong racy can quite affact it. They beep beenly and thirty cown aff the year count.

"THE Mr. Waters.—Have you formed any opinion on the matter of hormany."—I would be in favour of it. 1519. When you take a cost before the Count, are you supported by the Banch!—The fires are very, very small; there is no doubt shoot that. you supported by the Bancht—The fines are very, very small; there is no doubt shorth that.

9300, You would like better support than you get constituent—The magnirushes are in a very difficult partition. A great meany of them belong to the constituent—They do not seem to restitue the gravity of the case at all. Waters you that a readerst magnitude you at the large and the proof meany that is a great mean to retain on the gravity of the case at all. Waters you that a readerst magnitude you are thirty ands. The bools men are get at it is a great meany that you are post meany that the series means that you are post meany that the series means the series of the series o

9151. Sir Stewart Woodspress.—Are there surples of mile taken for analysis in your place?—The mile from our district is all brought into Belfust, and m locked after by the city authorities then 9132. Mus McNeste —We have had a sea great deal of orderne with regard to the practicability or otherwise of the Widal less as a procession against the typhood or up with less as a presument against to synaton oscrier. Have you formed any opinion on the matter? —Three oscriers seem to be very serious. These was in our district that we believe gave a great deal or scotter.

9133, Some witnesses suggest that all capaged in
the scitori handling of the milk should be subjected to
the test?—I am afraid they would object to that—the

workers.

9334. On what grounds?—I have great doubte if
9334. On what grounds?—I have great doubte if
they would allow it to he done. They would have a
scottmental feeling, bet, of course, the test would not do there any herm.

9135. But that motimental objection could be overcome?—It might he. 9136. We had the opinion of a certain witness here who not in all wend sure hours of 2,000 to some one the early me to be absolute the the insertion of a large the early me to be absolute to the the relative of a large that the total property of the early of a large that the ten to \$0.7 per level, not be to take of each propose of the early of the early of the early of the early per level of the early of the early of the early \$257. The Generacy—Vor would components by \$250. The Generacy—Vor would component to the \$250. The Generacy—Vor would be a mid-frome to the early of the learner was the early of the early of the early of the learner was the early of the early of the early of the learner was the early of the early of the early of the learner was the early of the early of the early of the early of the learner was the early of the early of the early of the early of the learner was the early of the who said that it would not about \$3,000 to oury

24.4. And that there should be a penalty for non-neithation?—I think that is quite right. I think you cannot be conveid cauchy about mile. The thing is to find out the disease as occur as possible, especially

91-92. There has been a great deal of trouble about ostification throughout the country?—In my district there was none at all TRESSERO, Chairman,

2010. Dr. ROMER Theorem, Christman, Public Bradth Committee, Rillens, addressing the Correntainer, said; — Mr., Chairman, I creete your infolgemen for a monant, I am enery to have to false employed on to a statement Dr. O'Null has mode; too fif you will allow as, I will send the correspondence which has passed between the Clark of the Considered Born! District Countil and the Zeon Clark of Bullet "Clerk's Office, Union Workhouse,

" Belfast, 16th Jamesry, 1909. " Duaz Sit .- I am directed by the Bural Distract Council of Casifereach to inform you that complaint has been made to them by their reteriousy inspector that an official of the City Corporation is an the habit of inspecting darries and covaleds in the rural district: this action has created some infitation in distruct; this section has created some prifection in the minds of the persons whose permises see so losponted, which has a tendency to interfere with the proper discharge of the referring; imported to duties. The Council respectfully suggest that these importance school be made in future in accordance with the previsions of Section 4 of the Infraelies Diseases Percention Act, 1980.

" Yours faithfully. " J. W. BORB.

" Sir Samuel Black, Town Clerk, Belfast."

" City Hall, Belfast,

" 21st January, 1908. "Data Str., Your letter of the 19th inst. was before the Publis Health Committee at their meeting before the Publis Health Committee at their meeting today, when I was instructed to say are myly that the Constitute were greatly surprised to learn that the Burel Dustriet Council of Continents, their officers, or the proprietors of dustries in their district, absolul edject to on officer of the Belfact Corporation inspecting dustries from which milk is supplied to the cilization of Belfact, that inspection though center nising the duty of protecting the bealth of the citizens, do not propose, as suggested by the nising the duty of processing was a considered to the property of the processing the constitution of the constitution of the constitution of Section 4 of the Infrations Diseases Act, 1850, but they instead to apply to the Local Governments Board for an order under Section 19 of the Tuher culasis Praventies (Irstand) Att, 1908, systematics them to entrue in relation to any dalrice orbition the city from which nelk is supplied within the city all the powers which they at percent have in relation to dairies in the city. "Your fulfillfully,"

" SAMUEL BLACK, Town Clerk, " J. W. Robb, Bog., Clerk to the Castlerragh Bursl District Council, Union Workhouse. would make a recreent-I see that the Bellion Royal

District Council take exception to a statement I made Distance Comment to the encoupling to a statement of made in the occurs of any ordelines below the Commission, the three courses of any ordelines below the Commission of the inspection from outside authorities, has he thought the feeling wes gradually dying out, and that just now, Dt. CHARLES O'NEED.-17th Pobrassy, 1913.

Dr. O'Neell.—This is so.
Dr. Thousen.—This is so.
Dr. Thousen.—This is so.
Dr. Thousen.—I am very glod of that explanation.
I did not bear exactly what Dr. O'Nelll said.
The Cranenty.—That is what I indirected Dr.
O'Nelll to convey. In the first instance he give an
own opinion; and I saided him if he thought has Consell.

entertained the same view, and be said that up to a certain period he thought they were hostile, but that recently they became more remountable when they reconrecently they meanine have remark which the imspectan

Mr. ROSSET J. PORTER examined.

2045. The CRAINMAN,-You are a solicitor practising in the city of Belfast 3-Yes, 9150. And a land-owner as well?—Yer. I am a small freebolder of saxty-servan across of land outside of Belfast, in addition to which I have my porfession spoons to repensely any enterest statistic most of contrast conditions under which that milk supply is extend for, and have unged upon the formers the necessity for their layers and dwelling-houses heing more sentiury and up-to-date, but I have been repeatedly informed by them that they dread making repeateury innormed by their developing-brunes or byten in othershouse, either to their developing-brunes or byten in the way of sanitary or other improvements, because immediately they do so the Poor Lew valuation of point, and should be considered by the Commission, as I believe farmers would improve their dwelling. moment a farmer makes an alteration to his ord-

be roted for, say, a period of five years. There is enother point I wish to bring before your Commission. smoothy point a wass to using secure your commence, war,—unfashe the enty of Belinas quite a number of terms become are used by artisants, checks, etc., by accounter belieflays, but the samilery arresponders about the houses are very imperfect, and I think legislation about he coursed out so that believes in farm-houses about he coursed out so that believes in farm-houses smitter subbrittee. In fact I know instances when the furnities leave the ordinary elepting accommoda-tion and go to out-houses so as to take in ledgers of the samuer time, and the milk mad in the farm houses in just left in the kitchen, or any place com-sions, and is hable to get contamuated.

9147. This hyppens on the confines of most large sities?—Yes; and the mifk is left in the kitchen, and 9148. Do you take any interest in the breeding of cettle yearself?—Only in a small way.

91.09. You do not, I suppose, consider rouncil as authority on beeds?—No, sir; I have a fee. Work High-land eatile and shorthorns and other eatile, but I would not consider them Up-to-date. I am only an amatem. The reason that I spoke here to-day is that in eas The reason that I spore here to any me test in my thirty-three years of experience as a solution. I have been upoken to by farmers and residents of the du-tried so to the deterroit effect of increasing the value

Thunk you very much. We are very much obliged to root, Mr. Porter

### Mr. W. R. Crusewitz eximined.

9100. The CREMERAY.-You are engaged in the drive tesic?—Yes, for twenty-five years, 9181. In what locality?—In Belfort

therefore, suggest a recommendation by your Commission that tensistion should provide that all formers

making proper and muitary arrangements should not

with 13 what to exhibit — in Kellout.

10122. In the city of Bellistin—No, in the suborts.

10133. Are you outside the city seen — I am inside on on the harder-line. I see in mand for my precrises unit obtained for part of my greating. The premises are inside the city. 9354. Do you keep your cows for one militing period only?—Parily. I breed a good many sattle myself. 9355. You have land enough to enable you to beself cattle?—Ten.

9156. Be you keep may milk records?—No. 9107. And how do you determine the calmals you will keep and those you will dispose of?—By closely looking after one's business one will soon find that

9150. By watching the cattle?-Yes. \$150. Do you not think it would be desirable that you should have some definite standard to page them

you should have some commits standard to judge them hy5-Me. I agree with that.
9160. And you think hosping milk records would be helpful to people empayed in your trade?—Yes. I keep my best cover and fatter the once that are not 9501. It appears to me that the keeping of milk recomb would be good in your case?—We are always in such a bury in the morning. That is the difficulty about keeping the records.

9862. You do agree that it would be extremely help-

9163, And that it is quite possible, even whilst sitending closely to your business, you might be come-times mished and form erromeous conclusions as to the cow that will yield the lorgost quantity of mile?—You one give a fair estimate of that. I stways believe in the cow that miles longest, not the cow that gives a

9164. Do you not think, as a rule, that the farmer 9104. Do you not must, as a rule, that the namer believes that the cow yielding a large flow of unit for a limited period is the best milker?—I have kept records enough to learn that the opposite is the cus-9165. I can not talking of your own individual view, but taking the case of the man who gives very little onsideration to the question, do you not think the the cow that gives a heavy flow for a limited person as the animal that makes an impression on his mindi

9166. And the keeping of records would disabase his mind?—Yes, it would be a very good thing to have mail: reports 9107. What kins to the Ayribes for enesting personal.

Ayribes for enesting personal.

9100. What becomes of the enivery—I always have glob. What becomes of the enivery—I always have been. I can the heat myself.

6058. What become of the salves—a mining applicatly of demand for them. I hear this heart impaid, 2000. Notwilliationing that the calves are cossed in 2000. Notwilliationing that the calves are cossed in 2000. Notwilliationing that the calves are costed in the calves are supported by the calves are calved to the calved to the calves are calved to the calves are calved to the calves are calved to the calved to 4110. We mister were much?—"They arew my means and how particular I am about the milk.

211. It is rather a novelty to use to learn that calves had from an Ayeshne ball would be in demand? —Anyone that has any experience of the Ayemne-will seen find out their profitableness. The bulk extres make very full store as bullets, 9172. You have been breading cuttle for a consider-

9173. What would the difference in Time to eat, a two and a half your hubbed with an Ayrubice cross as compared with a shorthern cross. If you take the little fetty shorthern, there is no difference. 9774. The one is worth as much as the other?—Yes, quite. The cross out of the Ayrabire is worth quite as much as the feshionship shorthors—I say tashim as much as we meanments storthorn—a my name able thorthorn, because that is not the one that best for breeding stores. It is a shorthorn half it has some points short him.

It is a obsertion bull that

289

9175, In the show yards h-Yes. I do not think there is the heast difference, because the Ayrstare will quicker. 9116. And come to early maturity?--Not quite so soon, but they will early flesh, and will sell well in the

market.

9277. Do you also use a Jessey bull?—I do.

9878. Before we pass from the Ayuthro—do you
ever keep the offspring of that breed for milk?—You. I course are just comparing or that or rees are annewed as feeded to self-almost abshirts a become that was a good sufficiently be long that a poor own heal? Do you think that the good sole of that animals a botter mills prothat the goodness of that animals a botter mills produting spired than the opinary shorthom?-R is

9180. How much does it partales of the Ayrikure?---A great deal.

2181. The Aurebiëc in rather a narrow beart?—That is purie wrong; she is very wide over the top. That 9189, No.-Oi course, there are good and bad. The Avenue is very wide over the top 9185. I am not talkens of the cow at all, but of the ball!-The bull is much recrover. 9184. He is nerrow to such an extent that his hackbone is simost perceptible?—Yes,

9195. The cow is quite a rice aminel of beautiful automation. The half does not appeal to me so concernments. The stat door not appeal to me so moch?—I think that at the parsent time, in regard to the being cost beed out of a half-heed Zersey, there is no shorthern at the same age would be any 9186. With regard to the Jessey, what is the result of the cross?—You get a very milky annual, nice to st, and valuable in the market.

7. Does it make a mode

1987. Does it make a good store?—The bullecks don't. I would not recommend the bulls in that case 918. But notwithstanding that fact you got a lot for your calves -- I nove send the helf-bend Jersey bull calves to survey to your lives and the helf-bend Jersey

9180. Are not all your calves sloughtered at the shutter?—The half-head Jersey bulls and the ball calves are. Not say hatter calves. 9190. Do you think it is sometimently sound to bee

1990. Do you thatk it is occorateably secure to breed as arminal that rants be sentified it that very 2—70 age that halfers, you cannot help it, such a described survey of the halfers, you cannot help it, such a described survey of the case around lairt, on the abases of gailing one, you have the case around in that way!—Certainly.

1992. And still you do not have place before one have then for militing sourself—if do a few of them; have then the militing sourself—if do a few of them; have the price I am offend composed to est them every described in 1992. Dr. Monnaco.—What calves do you say are chaptered at the sheather!—Only the reconcilerable last.

from the Jessey and the bid ceiver.

2194. The Chainsan,—Here yes ever tried breading the nameds a second time?—No, except in one case.

2205. And what was the cross again?—That helder No, only one-it is a shorthern, and a Jersey on the

500, 600 000-rs is a scormorm, and a sessing on me dum side.
2007. Are these forcey raimals, that are bought for wills haven for the supply of private condenses?—Su-bat these are lets of dukymen want them to coder keep up the quality of the malk, especially the 9108. Have you known individual cows that yielded with blaw you known marrows one was young with blaw the lagel translard?—Yes. 9100. Peristically?—Yes. I had a new that was registered under the Department of Agriculture, and that was what was against her. She gave 1,000

gallous in the year. psilons in one year.

9300. That comes up to some of the American
stories?—The record was loop,

9301. Was the milk of poor quality?—That is right.

9302. What shoulded did it reach?—About 2 00, and

a little better in the afternoon, may be 280 per cont. 9200. It was searcely over up to the legal standard? -Not until she came down in her milk.

9204. When the questity decreased the quality went 9505. Have you noticed that there is a marked didfeerence between the quality of the morning and even-ing well-1-yea.

9866. If you had chanced to sell the milk of that eyw in the city, and a susple was taken and a pose-cution restatated, you probably would have been con-victed of schore againcrated milit — You. It is one of the dangers of the trade we are all subject to. 9807. And you would be agraced to get some milk into your bulk sample that would be rich in fat, even though deficient in quantity, in order to ensure that the while would be up to the level standard?—That is

9238. And you found it necessary to introduce some fuzzon of Ayrshire or Jessey blood in order to accom-plish this purpose?—The Ayrshire is not so very rich or quality, but you get more milk than from the storthory.

2003. The quality of the Jessey's milk is very rich?

—Yes. In Scattand at the present time they are keeping records, and they have raised the quantity of the milk temperaturity. They keep the milk reasons there,

and they have suspectes going round.

(210. Do say other persons compad in the trade
introduce the Jersey bell and the Ayrahire?—Tes, the
Jersey as in great demand all round Belliet. We cannot get enough of them.

22.14. Are there any pure-head Jessey bersis kept5—
Yes. I keep one gryself. 160. I stop one myets,
1612. How do the hulls self5--he stere halls. I proceedly import them from the Island to get the

9338. Is there my Ayrstire herd?—Some, except my even. There is one new that has been established cot-side Dublin. I trupt the name at present. 9814. De you go to Scotland for your Ayrahine bulls?

-Yes. Last your I gave £23 15c, for a yearling.

9215. You bought the bull at a public sale?—Yes. 9216. Of course, you are very careful in the scien-

tion or these, was get the militing type. 2217. And ther are sold in Scotland with a record or their duan's militing point?—They are, but not all The man, however, who can give a record will get better prices. 2218. Would you approve of the introduction of that system to connection with the old premium bullet— Yes.

9219. You think it would be belpful?-All pression 9219. You think it would be belight?—an prenoun bells should be bred from cown with a moond of milk-yould of not less than 100 gallous.

9220. You think that would be helpful in increasing

vand. Too time that were on happy to increasing in supply of mile?—There is no doubt about it. 6921. Here you may means to complete of the attrictions imposed by the conditions of this Order?— Not at all.

9022. It is not in any dayve irriteling to those
conjust in the teste?—Not the least.

9025. It if for so have the conflicts imposed on
those who are supposed in the teste within the city azon, and to have those who send milk in from outside

9224. That is the generally received view?—Yes. 9225. With regard to the price of milk, here you say trade in the industrial district?—I do. I have 9236, Do these carts, in their younds, take in a

purely industrial population?—One of the carts does, day in the boune of a family with an income of day in the brane of a many was a quark 50c, to 50s, a weak?—I should say a quark 1928. Every meming and evening?—In the day, that it sking an average. There are seen families which will only take a pink, and accordings only a 1929. I want to know from you whether you think that is due to limited meuns or to want of apprecia-tion of the value of mulk as a food?—I think it is due

on on the value of mile is a rocal—I think it in due is want of approximation of the value of milk as a food-9250. They could buy more?—I think so 9231. It is not about proverty that prevents them purchasing more?- Not about Beliasi, of any rais, 9232. We are talking about Belfast at the moment That is rether deplerable from more points of view

than one?—it se.

9253. And where these see small children, to
attempt seems to be made by the heads of the families

attempt seems to be made by the heads of the families. wonder at the small supply. 9334. Do you provide any milk specially for infunts? -I supply a great sheat of milk to the Corporation for that purpose.

Mr. W. R. CHRENWELL.-17th February, 1912.

9233. That is for few distribution or for reducedpose distribution?—14 is free to the inflator. 2256 Want I want to know from you to this, do many people up to the trouble of going to their distritions of the transfer of the state of the contraction of the contraction of the concept of the contraction of the concept of the contraction of the contraction

w wy.-in beldish? "Very fave. 0237. Even people on good circumstances do not kies procession for this way!"—Not if they are seen 0238. Below to by become uconstructive. The intended that the milk taken from the whole hard in better that what kinch from you addrould own. 1024. What is the people of the your expetionset—Very Bibls, only this year. 0240. What is the peomit people—Tourperson or quest in two of my cents and \$2. or \$16.5 in the other 2241. Is that you conceptioned the abstract in which 2241. Is that you conceptioned the abstract in which

months—Voly this, only this year and—Vorgenous agreet in two of my content and & orly in the other content and the orly in the other content and the organization of the distincts in which tends or content out.—In the tends of the other content out.—In the other content to the content out.—In the other c

termes in ablar distrate as will. In suppose, have 7944. The suppose, have 7944 the supposity of one inconsect?—So. In principally the dealers that go late the worst bedshifted. 1966. Heavise at his peer suggested to the Commission that in outside industrial including when the commission that in outside industrial including when the other states of the supposition of the supposition of the supposition that it is not supposed to sufficient the supposition of the sup

Their is real enough rooted after.

2246, You are tool dissiliered with the mapection?

—It is not head when you keep everything right. We have always turnthal shout the milk being below standard in the meaning. There is no brothle about the rewaring milk.

2247. Do you by to equalize your milking periods?

—We do, but is in difficult.

OS. The problems of the post leaf in the moment thay segond 11—10e.

1939. Whe problems rike to got their mit the moment thay segond 11—10e.

1939. With segard to the people suggest on the execution of the segond of the segond 100 to the segond 1

where the first was the Naty give up into the 2021. And if you only unliqued near allower for contract the co

0237. Are you a behaver in grains for feating?—Not as a food; it makes a bulk, and it is hard to do without it.
1259. Be you find roots?—Not, turnips.
1259. De you ford roots?—Not, turnips.
1259. Livre you say difficulty in preventing them from tainting the milit?—Scondings in the spring we have a lattle difficulty. That is the only time.

2300. Do you find eaker to your own 1—Yes.
2301. Do you believe that if you ind your cope on
your tood, with her off and intry authoraces,
you would depreciate the quality of your milks—if
you feed them less they yield risher milk.
2303. A smaller convertible—Those is both.

1986. A smaller questily—There is a limit. If 1986. A smaller questily—There is a limit. If 1986. The property of the large la

keep a cow in a bushiny way, also will give good make but if you force her, she will give nullk of a poorer quality.

9285. You pastore your cows in the summer?—Yes, 9285. Do you give them artificial food on the grant —Norely the whole yars, cample, pechasis, the months.

2006. Do you give them artificial food on the grant 2006. Do you give them artificial food on the grant —Notely the whole year, emergi, peelogs, the recent of June. 2007. When the grass is at its best?—Yea. 2009. But when the grass is writery and speec or 2009. But when the grass is writery and speec or 2009. But when the grass is writery and speec.

seem you have to have recounse to selfetial fielding?— This is see. Our land is not so rith in the North. This is not for the control of the Aprilians seem in pore land. So saided is before then the shrekers, 1996. Dr. Mcomman—is see sake you give them in 1996. Dr. Mcomman—is see sake you give them in 2004. May be about the compound sale, I see a good data of Philip's select—compound sale, I 2220. World you consider it. 24: a pillen a grow 2220. World you consider it. 24: a pillen a grow the your readers. The professed at a 1 has posted in

pood datal of Bibby's color—a compound sale.

"The World's poor consister its, the a pillet a print of the pr

5073. The introceed price has not decreased the conmention. No. Seemploy any farmals inhorar?—Tee, a few sensity of the control of the control of the 5077. Have you ever compared their results with 6077. Have you ever compared their results with difference. The control of the control of the condifference with the condition in other woods? In 5278. Are they batter militor, in other woods? In 5278. Are they batter militor, in other woods? In 5278. Are they batter militor, on other in which 2500. Have you noticed the conditions in which

seen. It resignes you to my your come at high-test these coves see million at the conditions in which cove, also are million at the conditions in which cove, also is vary full, and also is mailed before she pose not of the first—Yes.

2009. Who is she million by "The increasance or 2009. Who is she million by "The increasance or 2009. The proof werone cores up and ask for the milk!

—Yes. There are greenly women about the fair for that purpose.

—Yes. 'Inside set generally women about the own to that purpose, you acknow the explicition of the vasuels into which they milk the creat—Yes. 2924. They would not be quite up to the simulatif. No. They would be direty?—Yes. 2925. They would be direty?—Yes. (1925. They would be direty?—Yes.)

mint — No. 1 always and risk ith—No. I always thought the milk was used—whether the wenners at the human or sell B. I don't have.

220. That would be a very frightly way of speed—my discount in the names were themself—Yes.

820. Do you meet many toberosions overy—Not many.

10002. The CREMMAN.—Have you suffered any loss from inbetendion covers!—Yesy bills. I have had a loss considerable, but they say revery race.

100 octains the proper cover were simplified by cooler of the Palific Hair Committee —No. 2020. Dr. Mooreton.—Have you had the tablewalls test applied?—Zes. 2021. Up to the proper of the Palific Hair South State of the Palific Hair State of

2000. You are spiker glot of 30%— has now helmer at the toporation text.

Interest the toporation text.

In the control of the

SECO. Dr. Mocaman, --Would it not be valuable in those cases?--I think it is minicading.

Mr. W. B. CERRWELL-17th Pobressy, 1912.

1901. It will detect tubesculesis in the early stages? -You might sell a good now that reacted, and the might be quite bealthy. 1992. They comnot react without having the discove?

—They have so little of it that they pass into the 9303. The CHARMAN,—Even if sloughtered the post espites examination shows that they are fit for food?

9305. You are owner that if the lesions are not cores in ordan period into it the lesions are not bested in certain period of the amounty, the entire coress is not socificed?—I am aware of that, 4800. Mr. Wissow.—What would your opinion be reparding the recommendation that has been made way often betore this Commission, that darymen should be homed — I think it would be a good rice. 1006. You would appears of that?—Yas.

1827. We had some ordense here regarding what a witness described as the "cacktoo" darrman?—We 9338. Would your comes be in favour of the intro

stores. I these that the introduction of outse kolls, such as Datch, Ayeline, or Jerseye, hare and there, would be very helpful to the dairy trade. \*600. Have you only personal knowledge of Kerrys?

1610. Will you give us your opinion of them as a mry broad?—I don't them they are a good dairy breed.

9311. Le that by reason of their bring so near the greend or giving soo fields milk 9—Yeo little milk. The Dexture nos better breeds.

"Old?, I maladed the Dexture?—They are different

armosts germons
1900s. The difference, as I understand it, is that the
Dester is the improved Kerry?—Yes, very improved.
2014. That is really why I was asking the question out. That is restly way I was acting the countries —if over considerable access in Indianal you could get the improved Kerry, you might salve the difficulty should be not man. The Denter is a good new. KHS. Would you appeare of a solvenn whereby they would be developed? —You. There is year a difficulty would be developed? —You. There is year a difficulty about the breeding; they are difficult to breed surrectly 1016. Dr. Moonman,-That is, they are not fruitful?

—Not that, but they searcely over corry their calves, and there have been so many of these wrong-stoped sarrants. That is the great infliculty about breading Deaters. 9317. Mr. William .- That is in your own experience?

9318. With regard to the milk records, I think you said you did not keep records yourself -Not at 9319. I would like to know what sort of induscement

a matter of trouble.—It is more trouble. There is not much expense involved. If one made a start it would not 4030. That is my own experience?-Of course, in Soothand they do that for the farmers.

9821. In it not the farmers themselves that do itdo not the sometice employ the man?-Yes, the socney.

5022. Would you not consider it weeksble in this socnery, that the Dairymen's Association obould instint a system of milk records in the locality -- You.

the state of years of the control of the state of the sta

and enery it out on these lines. \$6004. It would be a question of training and instri-\$325. In fact online semething of that hand is done, it is stiposechic for the Department to adopt the recom-

mendatures that you make. Too gay that it should be sequent that all permism built should be brid from ever with a record of mell yield of not less thus '00 gillous per ansum; but in the absence of records it is mpeculic to salest the arms to simple. That is true. These manufactures in the salest the control of the cont promism bulls are not beed by the like of me. They

are beed by another sort of farmer who goes in for their entarely, and we sill know that the dam of the premium shorthern, generally speaking, cannot feed its own In connection with the selling of milk in the COO. In consection wide the colling of mills in the street, I take it that it occurs even day that the street of one milk cart supplies excite to make up a shortage in he mapply—II could be become general. SCO. It is not guarant at present—No USB. What has made the difference—Value whole-alls storm above made the difference—Anyone who will storm above made the difference.

sale stores have node the difference. Anyone who wants a few gibbs of sulk may get them faces. 1869. The nulls server, if he wanted to make up a thereign, would go be whelende score—Aris. 1960. Do you know how they go at he steeds. 1960. Do you know how those wholende score age their apply of milk—Parsequelly from the centry their apply of milk—Parsequelly from the centry.

and by rail.

(801). The point I want to make it, that there is
a distroct rail—that, say, the Asteim Brail Distract,
where they have no relationary impression of the satio,
may be supplying safested milk—it is possible. If
you had the impression there that would be impossible. 2032. This method of making up the shorings meetings a risk—to put it up higher than that—of such

meastrolled milk getting on to any milk tends route 5600. What do you think is the difficulty in the case of the working man getting a supply of milk-you and it was more a matter of knowledge than want of thank so. 9334. Take the lower grade where there would be

a want of cash-what would your suggestion be to make such recole get good milk?—The only way is to brip them some way. SME. Were your when I asked the localities?—No.
9008. The position is this—it has been supposed
that more voluntary nonely or clusteably-disposed
persons might make an arrangement with a dairyman
to hims he can take a cream street and leave a httle milk in the homes?-That could be done.

9337. That would make in samer 8—Yes.
9338. And make it cheaper 8—Yes. That would have to be a special trade. 9840. If it sould be not in force do you think that that would make it ensure to supply these people from the dairyman's point of view?—Yes. They would be

see uniquinity peaks it view—need they would be government that muscoly would be a considerable amount addressed?—Yes. It believe that the great source of disease aerosapt these peer people is the wint of milk, not the poerre class of milk.

5042. See Personar Wessimanus.—You upoles of a characterial cow that gave a large quantity of that you lose valuable us fat than the average?—Yea.

1846 Bot taking the herd generally, as there any
difficulty in keeping up the standard of three per cent

of intr-round.

9844. And that applies generally, not merely to your own hard, but to the average hard - Tes; there as no difficulty in hooping up the three per cent, when you 2345. The CRAMMAN.-You told us, I think, that you

suffered no substantial financial less arising from the presence of tubereclose sounds in your berd?—You 2045. What is the experience of men in the trade generally? Have you beard of any of your neighbours generally. Have you beard of any of your neighbours who suffered from having their minuals shaughtered, or brudg unfortunate in buying cown that developed tubercoust?—Not from their. 9847. You don't regard it as one of the difficulties

of the troud—Not as 31 it would not increase to much. These use a from other things I would like its may. I think winder deleying should be encouraged in come and, I think think it as a terrible lem to our people the other than the state of the state sloor broght 41,000 worth last mouth, 

1650. Do you speak of loans below 420. The rea I am saking that question is that the Board of Works entertain applications for loans, but the minimum

is \$30, from isndowners, and it was represented to us that was a sum beyond the necessary or security available for small dairy people, and that some system raught be devised for dealing with lower of from \$20 spwards?—My idea is that a great many small dairy, men had to go out of the trade because their premies

were not writeble.

9351. And they had not the capital recessing to put
there in the proper condition?—No.

9357. Is there snything further you would like to
say?—There is nother thing short the filtration of
malk or the straining of malk. I don't think that there malk or the straining of malk. I don't think that there is half enough of ourse taken in the straining of milk. It is very hard to get all the sediment out of the milk, even with the greatest care, and I think that it should be made compulsory that veryone should use the cotton medium or name other medium to take cut all 9353. The wire eleginer is not cool enough?-It is Do Usc.

9354. Miss McNunz.--You mean a double strainer? —Yes. I have a good deal of experience of straining, and I find that the filter with the medium of cotion und wool is the only one that is effective, and will take 9555. Is the sotton wool thrown away?--Yes, each

time it is used. 9356 Mr. Wilson-I would like to confirm what you say—that is the only efficient method. I would like your opinion about winter dalrying. In several places the posttom appears to be that the milk yield in not much above 400 gallom, and at that figure winter driving is, really an impossibility "—It would not pay at that quantity of milk, water during at 6037. It is not a business proposition?—No. We would have to get a better mileh cow. That is the preatest trouble we invo—the quantity of milk the cows are giving. I say it is not prefitchle. 9350. Dr. Mcconnan.—Have you my of the Dutch breed you spoke of?—No. I have seen them. They breed you spone our -- no. I have seen morn. The keep them in Scotland and upla them with the Ayrahia 939). In that encountril?-Yes, 9360. Do you cook the feed for the cattle?-We great two cooked feeds in the day, and one law feed.

H. Have you ever used bestroot?—No, the

9361. Have 1932. Mr Wilson,—With regard to the question I was miking you about the selling of the milk in the street, you my that the sustem has greatly reduced trees, you my man me contour has greaty rounces in late years, owing to the wholesale stores?—Yes 9563. Would it be a hardship to prevent the solling would morely transfer the trade into the covered premiers or houses, or into the pisces that you could rely on getting right milk.

9864. That is the point. You don't think it would
be a involute on the trade!—Not a bit.

9385. The Charman, Do you consider manuals produce rather poor milk?—Ten; I would not give 9566. You mover gave them at all?-No, except in func to a few coas in the house that we were fattening I den't like the milk from come fed so mangolds. You cannot keep up the stundard. 9007. And you can only give a limited quantity, and you supplement it with loods that contain other con-nitraents - Yes. The mangoids have the effect of thinning the milk and making it finthy 9568. It more sees the quantity?-It might, but an experience has been so unfavourable that I stopped using mangolds.

1009. Do you food on hay or straw?-Hay. \$670. Do you find it more consomic?—We got at almost for the same price as the straw, and it is more

#### Mr. TROSAS ENGINEE examined.

9671. The CRAHMAN .-- Are you also engaged in the milk trade in Belfast?-You. 8072. Are you within the city area?-Yes, in the I do not keep any cows. whelesale insits. I do not loop any cows. I am distributing milk wholesale, 19878. Do you pasternise the milk?—We do. 19876. And it is nell; that is rubed entirely outside the numicipal area?—Yes, as far as I know. 19876. And the workless as the milk generally supplied to you as regards; cleanilizes?—On the average it is

good, and thoroughly elean. Of course, there are cases, no doubt, occasionity where we have cause or com-plaint, where there is not as much care taken as these should be, but they are comparatively faw, and they are getting fower as time goes on.

93%. How leng is it since you catabilished this trade? 9376. How long is it more you commone near own-—I am in the milk trade allogether shout twenty years. 2077. In a similar capacity to which you are m now?—It is eight or but years amon we put in the

postourising plant. 8078. In pasteurised milk popular in Belfast?-It was very unpopular for a long time, heaving the people were not accustomed to it, and when it did not show the cream on the surface they did not take it, and on account of it being odd nice. 6079. They thought it was poor mile?—Yes, but in recent years we find that difficulty gradually dis-appearing, and we have no difficulty at the present

me practitally. \$090. What quantity of milk do you don't with in your depath—Up to about \$,000 gallons per day. 9881. Does it come by rail or read to your depos?... Principally by rail; we have some also coming by read. you may reason to complain

conner is which the rulway transit is earned out? We have complicted accessionally, when they put the malk into vars with fish or any obser material. Thus is not present, but it is deen constrainally; and the means for discharging the milk at the stations in not ready so good as it should be \$583. Have you ever found the malk to be tainted by reason of its being carried in unsuitable commany?-

I cannot exactly say that I have, because the distance short, say, shout twenty miles. toos, with it the longest mistance?—About sixty to seventy miles in the longest into Belfank. 2005. Does my come from Moraghan?—Yes, and from Gelerelou and Aranach. 1000 Colerator and armago.

2006. Have you ever been obliged to reject milk because it was analous. — On one or two occasions, had they are very few. Sometimes milk that is mixed by

ppear to be what they see not.
1087. The fat riebules come to the surface?—Oube 9088. Do the came over arrive in a dirty condition?-Sometimes they do. Of course, formers are saloping a different type of our, one that is cleaned very ranky. It provents any splanking cost. In the bad type of 9089. If there is an opportunity of the milk aplashing there is also a danger of contamination?-Quite to; but the type of can that is coming in provents that

of the type of the war was a super extractly, agent agent extractly, 9390. To what temperature do you rose the milk to 9390. To what temperature do you rose the milk to 9390. Its fit your opinion that pestermentee in any 2001. Is flyour openins that pesteurisation in any way depreciates the food properties of milk?—I do not think so. I have had considerable experience, and I have carbanly seen handreds of shiften record on it, and I do not see any ill effects. That is my

\$600. It does teste somewhat? Shightly. Of course if milk is kept up to a temperature from 170 to 189 degrees, and the moshinery is in proper order, and the heater peoperly clean, there as no danger of any

2000. What do you estimate in the cost of penteurning per gallon?—I would say a farthing would cover the cost with the quantity I deal with 1909. But with a small quantity the cost would be estudied by more?—The cost of pesteurning milk would be less than a halfpenny per gallan.

Mr. TROMAS ENGLISH .-- 17th Privately, 1912

1000. Even though done as small quantition?—In doing it in small quantities you have penotically the 0.700. Do you sell ony milk unpartermed?—Yes, large quantity. I take probably aroun handsed I take probably seven hundred or sight impedred gallons unpastourned. of the mall

2007. For what person is some of the mall yestermed and others not?—It is according to the tends the mall, wendors are doing. For those who are rotaling in small quantifies the pasteurized milk scale them equally well, and there is less danger of being proscouled, because the oreins does not rise so rapidly. and it goes not require used carried weeking.

9698. How do you differentiate between the milk to
be pasteomed and the milk to be sold pure; do you
take the milk from one set of daring for pasteomission
and the milk from another dairy to soll rise or pure?

Most of the milk from the smaller farmers to pasterised.

1696. It the milk as a rule sent in in an inferior condition from small cow-keepers?—There might be an occasional case where that might be absolutely

in occasional case where that might be absolutely brus, but it would not be true greanity. In the winter months the annalier places supply subsed reals, and consequently we would not give it to a man read in the street, and that in passersized immediately 2400. And we would be approbablive that it would

not be as fresh when you got it?-Mixed suit will not keep so long. 200 Les there my difference made in the retail prises of the pasteurised and the imparteurised milk? The price is always the same as a rule. There prophs he a halfpermy a gallon difference at vertain seasons. We sometimes charge a halfpring race for unpattentiad mfk, because we have to pay more for

9922. You cannot fix a price that applies to every delivery 5... No, we take every case on its merits.

9408. And the condition under which the milk is
delivered is an element that is considered in fixing
the price 1... Dutte so.

9606. What is the variation between the summer and the winter proces?--Generally twopener and three peace, and in some instances more in the winter than

9406. A certain number of traders supplied by you be weeding in the poorer districts?—Yes. 9406. Do they coffe?-A considerable number take post-ourised, and

660. Have you any knowledge of the quantity taken in by the colinny member of the industrial population for a furnity of from four to six obligation!— My experience is that some of them take in a very small quantity. I have in my eye a friendy of eight or nine who only take in shout a promywarth a day. 9408. So that really it is only used as a continuent for colouring tes?—That is so.

9409. And none of the skildren get a drink of milk? -That is so 9410. In that due to want of appreciation of the

value of units are a food, or bootuse their means are so immited.—Many of them could pay for it sleight if they did not spend their money otherwise. they would only take in about a pennyworth of

9411. And possibly traders in other bigoids would not mare? - Yes. 9412. Dr. Mcouman,—Are there any young children in this house with the £2 or £5 a week inpone?—Tes. 9413. The Cramman.—Tes would not regard that so a preper bringing up of children?—No. I know of another case. Where a woman who was nursing a baby for the mother, who was employed during the day, got instructions to get a quart of milk daily for the shild, and mit the momer for it, and it turned out that the

runs only got a penapereth of skinmed milk and mixed it up, and some lady impactor complumed that the milk in the bottle was inferior, and it termed out cottone in 3d, for yore milk. 9616. What an aborninable freed?--- Unfortunately these things so on. 9435 De Mooriman,-Would a percey buy half a

pinty-Practically. 0416. The CRIMINAN,-Do you think that the trade in well is increasing?-The demand is cortainly

morning, largely amongst the more intelligent park of the community, but amortget the more ignormal classes of people I do not think that it is more lines as would say that probably it was on the doceane. 1417, Engwordent people make no province what ever for the accumismost of these relatives with mile viii, incoronant possess the children with milk food?—They consider it a laxury, and that it is not value for the money, though it is vested in their districts at threspecto a quart in winter. There is no doubt that the same make a rended, so far as quality is concerned, in every sixed.

in concerned, in every sizeot.

9418. Do you happen to know of your own knowledge whether or not mile of a certain quality is vended in the poorer districts employeedly?—This is not so. I bend a twienced made here and I was completely surprised. That is uttartly false. The unspectore take sumples from bindreds of shops that we serve and I know that is so. The milt is equally good all over the town. There is no difference.

9419. I am afraid that the people who take in mili themselves do not exceede much care about the oleanso, and often at my place, which is in a mixed quarter. they come with vassels that we have to sterilize with sterm or have them sent home to be warned, 9420, Would you shadutely refuse to supply the milk?—Yes, over and over again we have done that.

many.—Yes, over and over again we have done that.
Diff. And the nells is put into the scallery when it
is taken home, not no attention paid to 17.—Yes.
Dig2. Subsequent treatment norms in some degree sender useless the proportions taken to render to render unders the preconsistent inters to render the multi-clean up to a certain points.—That is the feeling I have had—that it would be a great help if these people could be taught to be clean. 922a. Up to the present the Public Health Authority has no power to follow tham into their homes; but, at all events, they have taken some trouble in order to secure that it is delivered to them in peoper

consisteon?-Quite right. 9415. And then, of course, the responsibility rests with the nurchasers themselves?-Yes. 9424. Is any trade done in separated malk in Belfaut?-There are only two parsons to that humansanother gentleman and myself—and 16 to only done for

acother gentleman and myself—682 16 16 0 mily 6006 207 a few months during the summer 168600—1006. 9425. When the milk it very pleatfull—104. 9426. Now what object to you separate?—We gene-rally dispose of 16 in cream. 9437 Do you do a teste on cream all the year reund? Yes, largely And you see constantly separating?—Only

9531. For what purpose is the supersted milk used-9931. For what purpose is the reportant max meta-is it used as a food?—It is used duming the extenses months as a food. I sell it at about a penny a quart. 9438. Do people use it for cooling purposes, such as making profitings and mills divid—They do. 9333. Don't be poor people use it as all?—It is amongst the poor that it is distributed, so fee as I sen

9454. It is in the industrial centres it is all sold?-5615. Do they aren give their children a drink of th—I think they do during the summer months. We probably sell a hundred gallons a day in a retail shop, and I think it is largely used for drinking and cooking. 9436. You sell to retail shops and also to retunders who have earls gring around the city?—Yes.
9457. And to the orders ry steet milk berrows?—

We have not these in Bellist, I am scry to say. They would be very useful to distribute milk in the poorer similation.

9698. And perhaps reach a population that are at possion not getting a supply?—That is true.

9699. Here they ever been in use in Belfaut?—

9690. It is quite a common thing in English towns to see them?—Yes, but unfortunately the great diffi-oulty we have in Belfant is that the type of men that we would like to get to do it is above that work. 9441. With regard to those who keep district shops for the retailing of milk, are they people, as a rule, who conform with the requirements laid down an the Mr. Tuomas Eventen,-27th February, 1912

Durse and Milk Shops Onder?—Yes. There certainly has been a great improvement in the had for y trace. They use a better type of vessel, and I think on the whole that there as an improvement, as far as the shapes are enterened, from the great of view of elecotificors, 3444. And the supervision of the Public Health Committee has hapeved the trade from that point of \$6.00. The public has present and the public training the public training the public public

94.6. They product the nulse of articles giving obres, oberar where null is sold—"Less are taken to perdet. And reasonable precentions are taken to perlect. And it is a recognised thing amongst those who carry on this trule that they must conform with the regulations, and they are inveys in decad of the visits of the Lupector?—"Yes; they keep their vessels covered.

risits of the Inspector?—Tea; they keep their vessels covered.

9446. Have you ever heard of cases where the milk may be stored in one portion of the infilling; and yet if the Inspector calls to take a sample be is told that some as for sale?—I server heard of any cost of that some.

1894.T. We have in other places that device has been received for no code to wreak the low?—If night he does on a very small made, but it would be on a very had been restricted from selling mails owing to selling other classes of goods, but I don't kinks; it is generally week in bothless—No. In the personnel made the week in bothless—No. In the personnel made the D449. In class you don't use all the pasternised milk.

versi in bottles?—No, in bolk.

948. In easy you don't use all the pusherrised

948. In easy you don't use all the pusherrised

949. It did not quite coatch the reason may it some
seas to still than the coloring mills —It is recursing into
at late in the day, and it is less valuable than it is

949. Of course, there is greater tapeas involved
in the pusherroad poll?—It is very small. You have
be shown in great the statement of the reason of the same of the s

to a mean up for securing your care, and your hands are amplyed there.

9450. You don't have to get the steam up specially?

—No.

9451. The CREMENTA.—Steam is casential to your trads?—You.

wash are truck "Yes".

9554, Nr. Wilson, "What happens, after you have 9554, Nr. Wilson, "What happens, after you have 1940erned the neith, so prevent bacters getting into 12—It is put tritle the cold storms and covered its appealed type of chum—nave American made churs.

9455, White that wilk is balen out on the read to be sent count to the results, it leaves your premises to sent count to the results, it leaves your premises

in those large nested canes—Quite so.

9463. And then it is poured out into vessels which
the rotation loosy?—That is so.

9467. Does it not seem likely that in going through
these visious processes that other given life will get
into the mill again?—It is possible, but after all I
doe't expect that them is much disney of overfarmen.

1800. The retailers seems to your place with them core variable. The retailers seems to your place with the seems variable. The seems variable. The seems variable was copy that for the batter fat. If we notice such that you cally that for the batter fat. If we notice such that you cally the proposence and have communicate with the Petkin Estable Depostence and have samples table.

1916. For nathern, if there was a cost of tuber-of-seems that the proposed of tuber-of-seems with the proposed of

9661. Because we have led evidence that in Copenbages the large distributors are in the same possition as you are, and they have labor own system of inspections, independent of the Public Haulth Authority?— We don't make any test for triburations. 9602. You have experience not only as a mills vendor,

Dot its as a number of the Operation.—No.

948. What do you that of the siminality of a numerical dury?—I show home. If might be very coupling to those who have get soo much into area operated to be now the laws get soo much into area a sufficient supply of very reliable mill in Bettin. It might benefit those people who have more lands to be a supply of the supplementary of slow, and the supplementary of the post of slow, the law of the supplementary of the post of slow, and that we supplementary monopole central, shows the weby we should go in the manipular central, —Not there is sufferent mill for the posity. 945. Mr. Winow.—With regard to the one-ray whole is to prevent any oning-rang milk ranged patting them on the read?—There is outling to preven in a lie can spet the proper type of zens. I have ablest bought of it. I possible to import a couplof Registation to teach the Bellint renth—II may The Bellint man would think it would lower his diparty to take the heavest when I is in vary not apply the proper of the proper of the cools always become the proper of the cools always have been bunded of them.

We I have some or for the bill the graph of the control of the bill the graph of th

pleasable flow, see movemen implies to corrow extension and tent or of the lowest is both only last in really its least of the lowest is both only last in really its least of the lowest in the lowest interest in the lowest in the lowest in the lowest interest in the lowest in the lowest in the lowest interest in the lowest

familians.

4972, Sie Structur Woostoose.—The tests you speak of, were they tests for inth—Yes, with the Getter instrument.

9473. Do farmers who need you milk from a distance, ood there milk after milking?—Store do, and some doe's.

19474, How do they cool is?—By meens of running

were, any so may cold 27—15y messes of marriags of 1973. Here year trade increased in the use's of pre-turning uniform trade increased in the use's of pre-turning uniform the past fire years, and we do not find a many abjections as formerly.

\*\*Bill. And there others in town who still postcusine \$100. And there others in town who still postcusine \$100. And there others in town who still postcusine \$100. And there is an increase in the soile of in the primared million in it because they think there is in the soile why think there is the soile of the soil of the primared million in it because they think they are the primared million.

change of general—A door think that has maything to be a support of the support of the support of the both of the support of the support of the support of the Changes—Xee door think the development of the Changes—Xee door think the development of the bar sites an occupance of selling patterned milks—No.

much pisturmed as new milk?—Yes.

9480. Mins McNmrs.—Yes said the temperature
with TIO or 180 digress?—Yes.

9481. For how long is that kept up?—The milk is
columnily parsing through the heater. I would say
it would be about the result of the said.

996. For howe long is that kept up?—The suffit is contained by second the long is the heter. I would up to would be second through the heter. I would up 18 would be a tridy high interpretate?—New, 996. We have had so referent to indirect that a forcer temperature at the most office of the second is a nest satisfactory author bone the point of view of the select. We first him needed satisfactors. 9584. You think those as something to be said for the prolongation of the lower temporature?—It is the best means of heightig the notific.
9885. That is wity you pasterine mit—because you want it to be top—Tee.
9405. The pasterineless is done in very large quanture.—Tee.

995

There is you exerce that it as all expected to as two irrepresentative. They bear is going on with continuing in fero. It is shout throw-eighths of an inch 1948. I happened to come occurs a large exerce space-tally perfected all the colls, and therefore the supportably postbarried all the colls, and therefore the they took precautiers to later through one of their representatives that the mile is problemed at this form took to the contract of the traction of the contract of the contract of the traction of the contract of the contract of the traction of the contract of the contract of the traction of the contract of the contract of the traction of the contract of the contract of the contract of the traction of the contract of the contract of the contract of the traction of the contract of

from front which you receive you multi supply?—We were of a good number, but as an if of these. Supply of a good number, but as an if of these. Supply of the well of the supply of the

mediately to pall down has bytes to please overy indicate and redshift them again without sector what he is going to do.

— 6001. Don't you think that it would be desirable that these shauld be some criticons great by the producer to the websaule desire of the Leonal Authorities. Improves having been suitable with the conditions made wheth the work or readmark? We

9022. To you say for ralk, as they pay in creamotize, on the botter six to be deleteral, until that is over the standard we pay the same prine for it, according, of the owner, to the times of delivery. We require off sortie to be over the standard. We have from time to time proceedous for mile adultmental with softe. He was understand with softe. He was described in the proceedings of the standard proceedings for the proceedings. The Proble Heilla Committee table the

self—No. 100 FURN-MAN.

1014, The CRAIMMAN.—You report to them?—You we tend to provide the Public Health Authority, and they generally take drains steps prevail that comment if we find the mall has been been commented to end of the tend the mall has been tempered with. We samply communicate with the Public Health Committee.

9400. Myss McNezzz.—Some evidence has been given with regard to separated unit and its sale leading to the oblitection of new rath?—2 don't think three is any sooth thing done in Belfast. 5000. I don't say it is done, but do you think if

District say it is deep, use als you trank is the use of separated milk were converaged that there would be a danger of its being used as an adolfterant? —It might be done is English people, want a milk of \$0.07. A dealer may say the people want a milk of \$1 per cark of fast, and he simply beings the milk to that percentage?—I could not offset to do this, became I have hear connectifier force other versies and

I would be the sufferer repetly because I would rein my own breimes.

9898 You think if the supply of separated milk for fermines generally, and not for babies and young chit-

9993. You think if the supply of separated will the families generally, and and for babies and young the dren, sees cassumaged, the risk of its massas would not be very gent?—I don't think to. 999. The CRAIMERS.—In tening the rolls supplied

years, the character-20 waters for this appears bown to stoller its thin the milk coming four, the larger duries, where the saith are better feel.—10; ever persone sometimes has been the opposite. In the small farms were obtain the fredgr at produced on the mail farms were obtain the fracting at produced on the contraction of the contraction of the contraction of the special contraction of the contraction of the contraction of 1900. Do you find, when testing the milk conting in in the meaning, that there is a rounded difference by-

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beam the batler fat of the morning milk and of the owning—Yes, we generally find it is an about three is to feer. GOIL So that is is quite a recognised thing in the made that the evening unit is higher in better fat that the recently milk?—There is no double object it, and we find a variation in the quality of the wall of the

trade that the evening unit's shapler in butter fat that the morning milk—"There is no double down it. and we find a visitation in the quadity of the selfs of the same core, any, other a cold regal. Mr. English. to which you wish to direct the regal. Mr. English. to which you wish to direct the regal of the Coroniwith the control of the control of the Coronities of the Coronic of the Coronic of the Coronic of the which is the control of the coronic of the Coronic of the which we will be sufficient to the Public Hough Coronic of the Coro

it requires influences to show that that it is for the corn head to head that persons to hand to be processed by the corn head to the corn head to be processed by the corn head to be corn he corn has been corn he c

route to an going old of the tente." Their lymp, and at the Collection of the Collection by the property in world has a good hand.

In a collection of the C

of about 3,000 corn, coughly, and before we talk about local inspection. I think erans about it is under the 100 corn of the 1

of impection from the point of view of covering onportion of the product only soil lessing accessive free? —That is my sorm thou-thui it should be made general all over Tectand.

1988: Do you think that it should be controlled by a carried anotherity?—Yes. We have been obliged this wanter to draw supplies of milk from co-operative than the controlled of the controlled

walke le curse suppose or must rout as-specially and the "color" must. We were obliged to flow "e censistends quantity of milt as the winter from censistends quantity of milt as the winter from censistends from the censistends of the censistends of the censistends with the censistend of the censistend of the censistends of the center of the center

Yos. To Bughard and Scotland they do not import
outside their sawn boundary, except in certain canas. It
is believe that imposition should be carried out
theorophily.
 6000, And it could be done effectedly and economically only under the control of a control authority and
the universal application of the Order-II thank that

MMI. The CREMENTS.—I trainerstand, Dr. Trimble, connection with the Manifeld Milk Fund for poor with to make some statement?—The. I wish to ediffere. The Fund is not delayable to the means of define a very local to the size and the reason I desire to being the before you is

Dr. ANDREW TRIMILE, 4 P., re-examined.

because I saw some reference to the question of application of Municipal funds to the relief of polestion of atmosphi ruom or one that was being indicen, and I wanted to show you what was being one in a voluntary only in Belfast. done in a voluntery way in Belfast.

9512. That was a question I suked—whether the witness thought at a proper expenditure to have public within abought in a proper experimence so many plants finds devoted to such a purpose?—I what to show how car system weeks. This Fund began owing to the fact that the Berough of Bellast decided to adopt the

Notification of Births Act, and a very short experience Medification of Births act, and a very saort experience of the working of it revealed the fact that very often children needed, not so much to be helped through good advice as by giving them good milt. We found that we had no means by which we could give had no means by which we could give that were in need of milk a supply from the children Morrover, we saw that there were a great many crisis of temporary powerty meeting one parents using out of work, and in these cases we thought it would be write if we could promote a result fund which could be drawn on for the needs of such children.

being the year 1921 we released such children. Derzug the year 1921 we releaved in this way two numbred and eights four children and Diring the year 1711 we believed in one way two hundred and eights/four children, and we issued thelete representing 12,510 punts of milk. 9513. Though what channel?—Through the channel of the lady visitors of the Public Health Committee. of the may waster or me runte means communer. There are seven lady virtices told off in connection with the Nethfestion of firstle Act. When a case is notified to the medical officer be decides whether the oblid grims farte may need the help of his huly visitor, the first place, to give advice as to the rearing of the child, and if in the course of her investigation do finds that for any reason the child is in need, she may

mind have for my feeces one cand is an need, he may give the perents one of thems fickeds, or as many as are required, each representing a part of pure new milk. Subsequently the Food and Drugs Inspector goes and takes a simple of the milk.

2544. Be you make providen in the drist instance
for the sale of this sails by a certain renairy?—No, six,
we saw if the milk as required, and then the Food
and Brung Act Inspector sees if it is up to thushned,
and Brung Act Inspector sees if it is up to thushned,
and Brung Act Inspector sees if it is up to thushned,
and because,—Where Is that milk gritt—In
a wallshop, when the same and the incorrect by any
silk, vendor to Betfast. The same though price to the There
IIII it the end of the menth social price to the There

Hall at the end of the month and gets their equivalent in money,
93% Is that a branch of the Wessers's Naticeal
Bashb Ameetatgor?—No. It is leathy separate. It
work to say that it mether overlaps nor rivals, the
work of the Wessers's National Health Assessation;
Wessers's National Health Assessation;
Wessers's National Health Assessation;
Wessers's National Health Assessation;
Where do you plat Assessation cannot seek.

501. Where do you plat Assessation whether the western the seek of the plate o

66 Volumery coherences.—How are the lisky inspectors when the Charleston and the official familie mailing inspectors of the Corporation. The admirestration of the Fund. selection. The administration of the Pand of the Corporation. The administration of the Pand does not cost us a furthing, except for the practing of 9519. But the Notafication of Births Act gives these issies an opportunity of realisting where help is required?—Yes. And where they find need they give one or two tickets, until they oce that the give one or two acrees, until they see that the necessity for such milk colorie; and each day, as part of their duty—although if is not part of their official duty—an outry is made in this Report-book of parts.

culars regarding the families who have been halped by the people in temporary difficulties, 9520 Six Syrware Woonnesser.—Is the milk peld for by voluntary subscriptions?—Yes. That book con-

taining the particulars of the people who are helped

9003. The CHARMAN.—You are resident in the

Crumlin district, Co. Anteim?-Yea 9004. Are you engaged in the milk leads yourself?... No.

953E. But you have some imposinge of the dairy
count that are in the district?—Yes, and formerly I
hopt a good many sury cows, while my wife was

ring. 9650. You have only recently abundened the trade?-It is only eight or rose years since I stopped keeping to many, but I have been at the habit of receing two calves to every cow.

is laid on the table of the Patitic Health Committee, There as no difficulty in carrying on the week. We get money from people most readily; but manky he were put on our feet by having one or two benefit perform ances by children in decemp academies, and we had one football wason

PGCII. Miles McNuna...—How much do you spend in this work?—We spent 480 lost year, and it tokes from 480 56 £100 a year. It is only temporary reliar, but 180 50 £100 a year. It is only temporary reliar, but the Women We National Health Assectation in our work. 9522. It is marely that you may give help to those apo come major the openiamical of loss one saminal Inspectors?-Ics. 8023. The Charaman,-And you have money at your

own disposal?—Yes,

5024. Do you find that the field of your usefulness is 9828. Me you find may use ness or your usersmean in circumsembed by hack of funde?—No. 9928. You have been able to deal with every case up to the present?—You, we have simple funds to go

on with,

0028. What I want to know in this—do your lady

toxinces know that only a certain sum is available,
and do they have to restrict their assistance to a certain

influencementally. The

and do they have to centrols their antipiatons to a central countries, or do they gets in foliable-reiminately?—They success the second of the second of the second of the 1927, I know; but they from that only a length success of success, the second of the central second of the seco fund, and unless this were done the thing would ful 1932s. It needs remembe who is cuthoscatto about

9925. Hi needs recorder who is cultivizatio sheet it, no order to use that the first is properly admirts treet?—That is to. The medical officer has that found to use at his distriction by the toy use of porcety, but preferrably causes of powerly that are only temporary, 1992. It is a most according thing?—We do not restrict the milk to the delithren. We give it to the mothers also if processors. mothers also if necessary 9530. Sir Summer Woonsons.—Do the ing give a medal knowledge of the rearing of the children

give a useful knowledge of the maning of the stellared—That is part of the duty of the Indy searchery office.

In order that there also be no consistent of the manine of the short the trad, I asked have of the monetes of the about the trad, I asked have of the monetes of the Corporation to be treatened of the from W. kirns as account opened in the Reides Bank. They give us a small intercent on the floating balance, and any two us sign obsques. You did that for the purpose of diffusing used, you use that me the purpose of dimunications in the work, and getting a larger number of people interested in 185. Yes, and to put it shows suspector, and she that if I were removed from the Corporation there would be other features in charge

9633. I think it is a most excellent system?—Then are some of the entries in the book to which I have referred. Seven in Strately father, labourer; mother, sprange; mother suffering from pathons; beby two weaks old; beby bothe fed. "Father out of week; mother in poor health from marghetent feed; father. nother in poor nearth from Hospitante boby; mile labourer; mother embedderer; fleptimate boby; mile even, to weather; even some money," "Pather lakorom; mother embedineer; mensam noon histori-gerus he meller; ears some moosy, "" Puller gran he meller; ears some moosy, "" Puller gran he meller; ears some moosy, "" Puller mother; no des de week, three in farmly; folker, talourer mother, no other help; mill en leving with noneriol sister, no other help; mill en leving to mother work. "Father root steries spell of work; fasher, better the some sister of the some sister of the mother help; miller in mother did at a harly is their harly footilis-fiel; mindel yit mother did at a harly is their harly footilis-fiel; mindel yit mother did at a harly is their postent, haly we did."

### Mr. Rossay Strucks exemined.

9687. You keep cown at the present time?-Yes; but not very largely. 9538. In regard to the milk yield, do you think it has increased or dimensioned?—It has decreased. In a great merry come we have a good yield still. 

9640. To what cause do you attribute that change?-To the permum balls of non-milking strein. 9543. You refer to the bulk introduced by the

## Mr. Rosser Street, -17th February, 1912.

9945. And you think they have an injurious effect on the milk-paiding properties?—Score of them. There are some of the premium infile from which I have reared spleudid cows, superinily if the dams were good should be a superinily of the dams.

Shomasheat.

668 You year year own sown?—Ym, all.

664 And leave you kept milk moreds?—I have

666 And for a considerable time?—Since the

Department commenced the days scheme.

Department commenced the dairy scheme.

1500, What have you come to regard as a reasonably good yield, taking the same of regard as a reasonably good yield, taking the same of the count that you have rearred?—I have reared some that have grean over 1,500 gollion. I have a pedigree shouthout that great 150 gollion.

3407. This is no very count shorthout cort?—You. Size

1800 (1800).

1957. That is a very good shortham our 9-Yes. Size gree very good milk, sold a good quantity. That is for the year, and not for the idealstoon period; the shortham period it would be a little under 70-to-them.

248. The hints way is to last in fee twelve months?

248. The hints way is to last in fee twelve months?

258. Have you led many shorthem news yielding or to that standard?—Mone.

were many year that many marriages cover yearing up to that standard?—Not one or buy ber?—I bought 6000. Did you beend this cover buy ber?—I bought her a yearing heater. Sto. Did she come to you with a malicing record?— No. She benefit out to be a good gather alber the

No. one versus to the control of the

at the time. He was sold with the other shreltens as occurred the mother being a registered slary cove and country of the mother being a registered slary cove (see that the receiver being the state that the receiver being the state of the st

being only 400, as a rule, a great many of the firmers peeler to get the ortex 40.

WOS. And in your optation that in not the best way to posterior a milking strain, by giving a reduced yourselford. "Not I shank the pressure should be norressed.

9000. You would recourage the keeping of milk

1900. You would recourage the keeping of millrecords by an increased premium to the built that was produced by a now with a good milling record?—Yes, 1900. It quite agree, and you think the Department's whence in giving reduced premiums not a meeting the energy consumity—Cortunity not. 1902. Do you think it possible to requirements outdide podigroe, that recold fulfil the requirements outdide podigroe, that recold fulfil the requirements

case generating?—Cartainty not.

6062. Do you think it possible to breed a cow, even
cotaids pedigree, that would fulfil the requirements
by producing good store stock, and, at the same time,
a pool millser!—There is no doubt about it.

9661. You have no doubt upon that point?—No.

2064. You haved some other than pure-heed sheet.

bornet—I do

5005. And do you institute any comparison to enable
you to determine whether these cases are as good
you to determine whether these cases are as good
as a good of the second of the second of the second of the
as a good dool belief. I have reported for cree-bard
ball—from really good days come—one that gree a
way the question of the second of the control of the
way the question of the coloring as I seen tending
the good of the coloring as an average of 480,00
When I commenced to bread from persuine built I
bed toms from one premium built, and on question built I

When I consistenced to bread from persuants built I med disonal from operation built, I and on master which of some lives one persuants built, and on master which consistence is come of so consistent with the first of second prince built in consistence of second prince built in consistence in the second prince of second prince built in the sec

preciate boil, that so matter what own bid a cell to bid, there was not a single good one. I had one preciate built that had past out cell only, that was a good dairy cow.

3607. And you would stiribute that to his bank bredling?—You find mone diotised by the University of Southermonn in

mail keep received, and you can be seen supported materially to the seen specific production of the seen specific production of a fitting seen specific production of the seed of the seen specific production of the seed of

books over the book.

50%, New you have good proceed of your you have,
and have you had them trappeded moral to the payer,
and have you had them trappeded moral to the payer,
there of their your good. It had not provide only
selected, it was your old brider. Bits was brid from a
press during your as the following press during your that Sifed form for grouns of the
Department law; your as the following press of the
Department law; your as the following press of the
Department law; your as the following press of the
Department law; you as the following press
of war transfer law your set of the following press
out was transfer law your your produced a oal! he most forTill. So has not yet produced a oal! he most forTill. So has not yet produced a oal! he most forTill.

9974. Sain and not yet proseces a sun account—and heriter had a say, do you say the failub?—She tailed 9972. And why to be sumed in milk and hotter fat-be gave poor ansatzly of milk. This is from a cross-leved bail. I hold it is not beauling about shein; we require. I would probe the abundant to beauling the after the child and the hold a milling strain.

1 wo had a mining sisten.

10013. You noted peeder a pedagree built if you recently a second of the second of the

I many say that I brought aur shorthera bedfen forwed and duty one was any good. As difficulty there is an asserting a still set of the state of the

ingper number of good nulbers?—Yes.

3978, You do not engage in the culk tende at all
now?—No.

9979. Was that for family reasons?—Yes, all were
strangers about the hooms, and you cettll not got the
null holded offer. Aber any wife deed I could not got
null holded offer. Aber any wife deed I could not got

one haster proported mush or mobile of the growtens. Mr. graften, to which you would with no destroy the attention of graften, to which you would with no destroy the attention of proported the proported of the

The conference of the conferen

A 9080. And you believe from your experience that unless you make a good milk one with a good milking stemm, there is not much chance of producing a good dany one?—No.

2080. Danse without almost on much immediates to

9384. Do you attach almost as much importance to the hash breeding of the buil as to the deem of the culf? — I do not offerk I would. I kink if I could get a concent from the hell's deen, and had a good dairy ow, that would satisfy me. 2335. That would lie a resionable precontien to telein order to bread and reflected. We seem bulls in

in order to beed apod military—Ya. Some bulk in my experiences seemed to knowl to themselves. The bull that was size to the 1,000 pillon owe, if he served a bull military order than blody the call would not be hotter than ber, but if he gos a good duty over three was no doubt the offgring would turn out a good

brary Digitisation Unit

#### Mr. Jone Maxwell exempted.

648a. The CHARRIMAN.—You are Duzy Insunder the Larne Urban District Council?—You. Inspector 9867. And I we you have forty-two persons regis-tered as cowkeepers in your Urban Dreasoth—Yes 9888. And our hundred and fifty-two cows?—Yes, or

sn average of 96 nows for each person.

0690. Have you say difficulty in getting nowhaspers to conform with the regulations of the Dairies much. Before the Order came into force, we had a

set of regulations on the same burn, and they brought the cowingeness up to a fairly good standard, so that sary to asske very many alterations.
6000. The condution of things produced by your own

required by the Order?—Yes.

ROB. With regard to the halets of the people angaged in the mile trade, do you find much difficulty in

2022. Does it require constant supervision to keep up a reasonably high standard?—Yes. 998. Do they keep the venuels in proper condition?

In pretty good condition occasioning the facilities they have for heeping them.

\$404. They have no theam, of rearse?—No, or suntable building in which to cleanse or oly the miliaddition to the supply produced in the orban districts there are him coxisopers who rouds in the rural bundred, so that the milk supply of the Urban Disbundred, so that the mile supply of the number

cows investing the supply is two hundred and fifty.
two. We get one-third of our supply from cows in
the Large Surai District. 9596. Is the Order in existence there?-Yes, 9006. In it efficiently carried out - I cannot may

9927. Have you may difficulty with the mift coming in from the outside areas?-No. 9398, And so far as you know, no outbreak of dis-case has been traced to the milk?—No. When inquiring into the wase or innerross disease we man than the family has been supplied by the claims outside the district, but the same thing might apply to the family supplied by a dairy inside the matries. 0.009. What I want to accordant from you is this,

when such a case is you middest has been discovered, does your Medical Officer go out into the Leene Rural Diritors for the purpose of investigating the condition rates which the milk is produced NNO. 1900, And no attempt is made to topoc the cause of infection at the source where the milk is supplied?

"We have no power to mapped the milk is supposed."
We have no power to mapped in the Burnd district,
6601. You steegmise that you have no power of inspection subust vector own even."—Yes.,
96502. You would need a Magativate's Order to conpower you to inspect cutaide, and nothing of sufficient such rico?-No.

9666. What price to the maik sold at 5-One shifting Stor. While price as one make you are not as a pallon oil the year recent.

2004. Is there any hilator population on Larnet.

There is a fairly large industrial population engaged

in the linen teads. 5666. Have you my knowledge of the quantity of milk commend by a family with a remonshile income, say from 256, to 30k. a week \$-No.

1606. Do you think that the skildren of the district get no much rails as they reasonably request?—I don't think they do.

9607. Is that due to the fact that the food value of milk is not appreciated, or is it due to want of means?

—I think it is rather due to want of proper appreciation of the food value of milk.

2008. Can you suggest my means whereky that knowledge could be maximized more widely than it is at present?-By adventing the people as to the value of wilk as a lood, principally for children. 1600. Has you Authority over had occasion to order the shughter of tuberculous cown in any of the dairy yards of Lorne distinct?-No. Quite recently a case came under my notice where the owner of a milely reaemployed a Veterinary Surgeon to apply the tenercein The cow re-sected, and on the odyner of test. Inc con re-exect, and to see unward or me volumnary Surgoon the owner gave over the salmal to the "knocker." I saw the cow opened, and the marrial organs were solutely rotten with belocations. and also the udder.

2646 De you make any essemution of the udder to essertian what its confident is?—No.

9611. That is obviously a case in which the witernary suspector would have been of encursors value?—Xes. From outside examination is conwould say the under was wrong, 9612. There was nothing to indicate that the older

9616 There was evidently something the motion with

9613. The Chargeray,-And, of course, it is not only possible but notically true that for a period for one's notic was sold in the town of Lame?—It was being used principally by private families. 9610. I repose the private family has no tree right to be potented than any other eaction of the community?—No. 9647. Mr. Winney.—The ... Mr. Wasser.—This is quite recently?—It is

9618. The Chargery.—Had he a large number of over Chair o few soun, the milk of which he und principally about his own house. 9619. Mr. Wr.mov.-It would be exceedingly toresting if a note was kept of the people who had taken the milk of that cow before the naimal way slaughtered, because it is more than probable that they will the of tuberoulouis.

The Changan,—As all events their changes have see greatly enhanced. When this discovery was made, did your Local Authority realise the importance case?-They have taken no school in that direction as

903). Did you report to them what you discovered -I foi not, because it came under my notice in a private rather than in an official way. 9021. But, at the same time, do you not think it would be more littly to influence them to appears a veterinity man if they had knowledge that as there even helffwish a perior of the community had been even betrevors a person of the community take non-subjected to danger, by reesen of the Coursell sof carrying eas to the full the provisions of the Order?— I mentioned the matter to the members in a private marrier, but they did not take any setion. 9622. Do not you me the necessity, at all ovents, of having safegueds to severe that such a king should not occur again?—Personally I helicre that the should be whole time voterinary surgeons appointed

That is, one or two to cook comby, who would devote their whole time to the testing of aramsh of winch they had any suspicion, for tubescalosis, and power to owind compensation for any one that re-agts, 9033. You and this cow did re-net to the teberculity tost?-Yes, very decidedly. 9604. Hecouse we have had evidence before us that

was rather contarry to that—criticate that samuelt that were suffering from obvious tuberculous in an Mr. Wr. vox. —I thank he said "may not." Witness.-These was a veterrary surgeon

Witness.—These was a vetterinty stageon pro-when the cow was spened, and he recognised that all the internal organs were budly affected with tuber-1625. Mr. Wr.sox -Had any bacteriological examp

9626. The CHARDEAN.—Do you ever send temples for analysis?—In the Larne Urben District, the police so that. They are the Food and Drugs Inspectors.

9027. You have no anthonty?-No.

9628. As a matter of practice, do they take the temples protiy regularly 5.—You, they take eight or too samples on an average every quarter, and adulteration has been practically nil in the district. 9620. No cases of adolferators have been proved against any purvoyers of milk?—No.

Mr. JOHN MARWELL,-17th February, 1912.

900. Do you think it desirable that the registration of the folder should be uniform on every distortive.

You.

9001. And that a veterency suggest should be a measure of the shift on each Dakeis! Council in order and a successive of the shift on each successive whole time officers, to supervise the sharp improvement.

9002. Your suggestion would be that when ones of superior arts, the supervise sharp improvement of superior arts.

married with the vectority support still examine a determined—Yess. One two for each county would not be a sufficient to two for each county would not be a sufficient to the support of the first two for the support to the support of the posts, Yes only want to do it is no economically as

9633. You do not rearry the number—we peak you cole wast to do it as economically as prosibile—Yes.

9636. Mr. Winner.—You say in the seasons) of you evidence that after three years' enhancement of the Owing, the presented of a recognitably into-culous midth own in a unfaith head should be made as

the Owner, the processor of a recognishing valueculous middle see is a control band shared be under a statutery effected—For. I have both that destrine for a considerable time preceding the order of other, that there should not only be no componentiate for a wholching now therefore, but that the owner of the summal should be fixed to become her in his procescion—Twee the same are a seen or who requires a measured scale—Twee the same are not relies requires a measured

MMS. On the start track of you are to get them annals wretake out, then doubt it some minimizers more discounted and the start of the s

MAD. So long as he volunteers the information that his new was and in good health and that he wanted her executed, that he should not be prescuted?—

566, Bat 2 the velocity targon delevers only an annual in the great of the supports, it should be supported, by should be supported by the support of the supported by the support of the supported by the support

6643. You also give the figures, that in the year 1936 bird per cont, of the cow situation in Boffest were affected with tubercoslosis—Les.

9645. We shall be figures in criticace before us. We had it quite cheerly grown that the number of tubercoslosis could be figures in the conduction of tubercoslosis control of tubercoslosis control of the conduction of the conducti

2011. Can you suggest adjusting them is only trademy for his country covelages or easily most sescend intercolous cover into the Beltist natural—Quote the country. I think these world be more indecensed to have them simplisted in the country disfeste. The Canasas—and more thought and the profession sale of the summit—Tax. Fig. 7.22. Canasas—the bearms difficult to second \$40.1, No. Warnes—the bearms difficult to second \$40.1, No. Warnes—the bearms difficult to second \$40.1, No. Warnes—the bearms difficult to second the second to the summit of the second to the second that cour of the best-less are desiring to a desirable that course of the best-less are desirable to second to

class of cattle. I have been that is is quite is constructure, to key out the from A2 20 to 10 to 8, been, 1668. The third arts only busher?—The 1660. Yes well segment because the first refer from the first segment of the first refer to the information of the first segment of the coninciant bearin, and being there and Belless on the size of the first passed?—Yes. 500. And if he got 1 to proper and it there torough, by would fill have a period—No. Increase of tolerwidous animals dissplitted in Bellest—I se-5003. Yes on what of springer has the dissplitted and the second of the se

GGG, Taxis venual tenus is account for the increase SGG, Texas via do espirate that Article 6 of the SGG, Texas via do espirate that Article 6 of the Opins forces too winter a loop-leid—New, I will see the second of the second of the second or have too via all a therein the tempt which to escape here the stilled resonances of the Order. See the Paper seed, of the cross dampeters in Billaries.— I finds it from a paper cost key De, O'Stoll at the Bode. The second of the second or the second of the SGGG, and the second of second

awe paire to the winning proceedings without to porting to the femiliter subseries, and that if they tad no oftene against the Orlet etter should have great the subseries of the orlet of the orlet 9005. For this their loss of the orlet of the or 1905. How you anything also at the best of your man? To you and their due have a repet of that load of the power conserved may recorse the attractance of some of these firsted at the Ground meeting, to color to come that no order should be made for presenting the distriction of the order of the order of the third order of the order of the order of the third order of the order of the order of its means that no order should be made for presen-

50 507. You have no ecceptates as to the administratura of the Order system! Team that cames!—No. 1 — 2003, And it would be goose Blody to soles in a — 2003. Because the roots in the order district would not be required in a statily index, and they would look of the required in a statily index, and they would look of exceptances to animylating—No. 2009. So it in the root districts of interest to animylating or a proper state of the state of

trade on the Council's—Eco.

9001. And until human noture becomes a little more puriest this will continue?—Yes. The same thing might apply to the Bereh as much as to the Urben or

a might rpply to the Berch on much as to the Urban or Rural Covant? 10 9002, I field not quite take them into my parrows, but I lives no doubt that magnitudes are composed of field test inbod like other people. Have you over reason to complain that when you bring same hefrer inapplicately, they are not over sympostatic, or lookingly to irrows exflicted fixed—The fixes are too goald—

the 9003. And these prove no determine whatever "-No.

9064. It is a case of "Not guilty, but do not do it
again "--Yes.

# Mr. William A. Bill, Lt., committed. Builte Order, Hr. Berry, who was extended before Connecting the Connectin

1603. The CRUMING—I reflected you no Clearmen of the Helber Bretz Director Control—Tomos of the Helber Bretz Director Control—To-1600. With regard to the control—To-1600. With regard to the same for the control the effects of site Bellint Public Bradth Controller only jibs your district in the purpose of making or long jibs your district in the purpose of making of the public that the control of the control of the second control of the control of the control of the second control of the control of the control of the second control of the control of the control of the second control of the control of the control of the second control of the control of the control of the second control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control of the control of the control of the second control of the control

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week splexibility. We not not him have should be week feeling above the first have been the first have been been done offends, but this they should work in humony, well come here in regain to the sharement of Dr. Thumson, Chairman of the Pathir Health Committee. With segard to our District Conzul, we offered no opposition whatever to the Belfski Public.

Mr. WILLIAM A. BRAL, J.P.-Pith February, 1912

Authoratics inspecting our district. In fact, it was all the other way, and I have evidence here to grove that that was fee case in connection with this outhwell of You are as auxious as the Public Health Authorities to assist or an investigation to discover the source of an outbreak?—You I will abon you how 9600. Are these extracts from the minutes you are producing?—They are reports from our officers. The first is from Mr. Burry himself. We desire nothing first is from Mr. Borry himself. We dear better than that I should read them for you.

Neport of Mr. Barry, Veterinary Inspector, dated dated 16th June, 1917.—

" I was informed on 15th Depumber that serve officers of the County Berough of Beiftst had visited the permises of Mr. James Morray, Bellybenry, a the preceises of Mr. James Morray, Bullyburry, as registered duryman, stating that diphotens emissed strong im customerie. I, accompanied by Dr. Loughings, impected Mr. Murray's precesses and existic sense day. No disease of any kind sexists on Mr. Murray's precesses, and I here bere reen a Mr. Murray's precesses, and I have been reen a better ordired dutyr; both without and within it is on clean so hand see make it, and I have never men it otherwise. Appended please find octificate from Dr. Lousbridge, as to the health of courants about the dairy. This report is a very serious matter for this duryman, and I connot well understand why the City Authoration, if they had any sempoison of the existence of disease, diff not communicate with the Medical Officer of Health of this district."

"To the Chourmen and Members of the Belfast Bund District Council, June 18th, 1911. "I beg to reper that to-day, at the request of and accompanied by Mr. Barry, V.B., I exceledly exemited the house and household of Mr. James Murrey, Bodybarry, Carmanesey. I have pleasure in stellar that the healty and servants of Mr. Murray are absolutely free from disease of any kind, and in stelling max the hanny and servence or mix because as a shealtesty free from disease of any kiris, and that the merite of Mr. Murray's residence reflects the greetest coeds to Mrs. Murray, at it represents to me the high-water mark of the most up-to-date

notion of household hygione, "J. C. LOUGHRIDGE, " Medical Officer of Health. " Bursl No. 4."

" Resolution of Belfast Boral District Council, dated 19th June, 1911. " Besslved .—That a Committee, consisting of the Churman, Messes. Vint, Graham, Chisbolm, Covy, Henderson, McDowell, Houston, be appointed to

confer with Mr. Harper, Seliciter, and take such stops as may be determined upon." " Report of Committee which met on 19th June, 1911. " Case of James Murray, Bollyhenry,

"Mr. Barry, Veterinary Inspector, was in The Committee, after giving all the circum-shames of this case the most enteful and patient consideration, and having learned that the officials of the Belfast Corporation are making the structure or but disease costs in this place, were of opinion (shihough statisfied with the reports of your Medical Officer of Health and Veterinary Impector) that the odly others's should be given every facility for con-ducting their impairs. The Committee ultimately decing their impairts. Are considered, but to decided not to take any action at present, but to award the result of the investigation being reads by

" (Signed), WM. A. BELL, Chairman," "Resolved:—That the furngoing Report of the Committee be approved and adopted."

" 27th June, 1341. " Sur,-I have been requested by the Belfast Burnl District Concell to himpy under year notice a report potential Concell to himpy under year notice a report received by it from Mr. John M'Cline Berry, the Veteriner's Surgeon to the District Course, of an alleged disease as the Courty Borough of Helfant, and alleged disease as the Courty Borough of Helfant, and alleged to be attributable to malk supplied from a darry in the rural district within the County Borough negationed.

"My Council and its officers are most desirous size and the result of the result district should be repulsed to purchasors within its district, or within any other district, likely to same discuss to any person. My Commit, therefore, devices that in the person. My commu, threatere, decreas man in the event of any tangencous case arising, year officers co-operate with the others of my Cornel to prevent such milk being amplied for consumption, at the estimat possible moment. In this way try for magnifestor orders would be avoided, as the dairy-keepers to the rural district do not in an

> " Yours truly, " HUGH HARPER

Robert Moyer, Kay,"

" 28th June, 1911.

dishlarm in the Fociarillium Fact Datest of dishlarm in the Fociarillium Fact Datest of Belfast, I am directed by the Politic Hashin Com-mittee to inform the Belfast Recal District Council that Dr. Ballie, Medical Superintendent Officer of that Dr Baine, Monatol Supermentains Ones in Health, in the course of his inventigations in to the evens of the outbreek, accordanced that the majority of the present affected occurryed milt supplied from the dang of Mr. James Murray, Ballyburry, of the persons the darry of Ma Commony, E., S. AMERY, SERVICE, SERVICE, S. C. Commony, T. C. Comm and samed her of the isoscenerate of the reduct.

"Mr. Merry, the cower of the dairy me factupon required by the Public Results Committee to
stated before flexin the Chr. Hall. Mr. Merry,
did so attend on Touchty, 20th inch., and when satiod
with now wite choicenast the Committee's officer in the
discharge of his legistrate duty, sood that he had
activated an enemine of the Betfact Resul Institute
activated in mercing of the Settlet Resul Institution, and the had the market under consideration, and which had the had been band, and force

the instrument. tendent Officer of Health from Belfast had no right to inspect the deary, and that he abould not be

permitted to do so "I am to sek if the Medical Officer of Health "I am to set if the Medices Office of Reason. No. 8 Barnd Dustreet Council, under date of the 15th mats, repeated to his Council date, "occur-panced by Mr. Berry, Vocetnary Burgeon, he hash casefully extensived the brane and branchold of Mr. paned by fer. Earry, removes, such as a contribution of the contribution of the first and himselvely, and has been such as a contribution of the contribution, and the contribution of the his dairy, one of the former was found to be suffering from diphtherin; that in consequence it had becom-necessary for the Public Health Coccentities to require

the removal of all the mambers of Mr. Murray's

feasily from the premises, to have the dwelling-bound distributed, and the dairy and byte fine washed, and the other strangeric accusates adopted in the interests of the strangeric accusates adopted in the interests of the strangeric accusate the strangeric accusate the strangeric accusate the strangeric accusate and in the Distribute of the Selfset Burni Distribut Councils and if the Distribut Councils afform advised Mr. or Max. Murray as

# "I are, Sur. "Your obedeent servest, "B. NEYEL, "Torou Cler.

### COUNCE OFFICE, " Union Workshoper,

201

"Burrort, Bit. Joh, 1911.
"Sta.—Yan John 24 Wh. dillow, ne-bridge for Port, and intensity at the Bellow Bellow, record of the property of the Bellow Bellow Bellow Bellow Bellow Bellow Bellow West, and the Bellow Bellow Bellow West, and the Bellow Bellow Bellow West, and the Bellow Bellow

save ballest cerebal measures to percent the spreed of attenuing the Public Band Congrettee from they that Debted Controll use at all times systems of the Debted Controll use at all times systems of Constitition in Surfer edition to true distorts, as supported in sharine arbane in the rural distorts, as the controlled of the statement of all concerned that the about the edition controlled to the controlled of the wide regard to the authorists of New Merroy, which regard to the authorists of New Merroy, as supersued device, upon the analysis of the last produce of the controlled in the controlled of th

Be face of this report and three letters, Mr Christen of this it was hordly far of Dr. Thansen to the letters of the control of the letter of the control of the letter of

"With, but understand that we have no supermitting for that it and seem in consequence of repetions made to the Occumulatory—I am exceedingly the made to the Communication of th

2007. Were there my means to smooth their the reage of the medical from on thirty of diphthesis at my time medical from the thirty of diphthesis. Longhedge was in simulation on the time that the Longhedge was in simulation on the time that the Longhedge was in simulation on the time that 100%, Of course, which is made above of the 100%, Of course, which is the simulation of the 100%, Of course, which is simulated as consentingly contained the simulation of the medical contained depend on the same half of the contained depend on the same half of the difference of openior half a simulation with all differences of openior half a same half of the displaces as one of the malation with all displaces as one of the malation with all displaces are the same that were often some displaces as one of the malation with all displaces are the same that the content of the displaces are the displaces are the displaces are the displaces. The displaces are the displaces are the displaces are displaces are displaces and displaces are displaces are displaces. The displaces are displaces displaces displaces displaces displaces displaces displa

has been out in the constructive state of the construction of the construction of the construction of the construction of the constructive state of

objections N-I would not up so for so that. I do not that they are qualited to go into our distinct to inspert distinct and called to go into our distinct to in-5078. In England their our office having thus power? —Yes. 9079. And there is no friction?—Now whatever, 9099. And there is no friction?—Now whatever, 1909. I mean the same power that Bethast is ading for—I would like to see cooperation between one

Council tool sondware but I the department between son of the authority power entithed have or ileance to person to the contract of the contra

and you, doction for fevery in a most inclingion and
which was a supervised of the possibility of
that if this laser-decide were processing to the
decide Prable Health Authority, it would
not be then you putries about the condition of the
stage that where disclosures of these sails
spages—the healt of common Board should have
to farm that the Acted Commonton Board should have
some price in proper of Authority Research—No.

365. We had it is workers that they had no
space in Author Board—No.

365. We had it is workers that they had no
space in Author Board—No.

total reasonable of the collar —The Government of the Collar of the Coll

to felly state affer.

985. There is no suggestion that they should not suggest ordered districts, but that they should be in a position of the control of t

cone always.

907. Without exposure there is no fibelihood of a
core?—The Local deverment. Board are too inc.

908. Too think that dependent points to entirently
administrated in every data at the contry?—Yes, I
agree with thus, and there alwayd be supervision of the

cattle to every smal district. We have two of the anallest rocal districts in Irohand, and yet we had not a voterinary inspector at once. 9680. Do you think that our unpecter is sufficient

for these two districts?—He is giving life whole time 9660. You are in the happy position of having an intelligent and efficient affect, but he has a great deal of ground to cover and a good deal of work to do, and

some prestual plus might be adopted by ultrah those two districts might work more larmomously. Would cash have resson to believe that on opidemic in their city originated in your district, they should communi-cate with you, and follow that up by sending then

that Long's unbrevenes between his two districts, and you certainly see not underworking your office?-We will give him ascertaince whenever he needs it. public administration?—Yes.
P092. So Streware Woodporter.—Do you think

modical mapocker to visit the flony, meeting, if possible, your effects, so that they might have the quickest information as to whether there was anything firely to effect the public health of Bellissi or not. They could leave, of source, to your District Council, the right of panniment and following up matters locally, while they common and necessary of masters recally, while they thannestes would require an itemselvely, so that they might take steps to stop the contensor. The Public Health Authorities could get into communication with our officer misde an hour, and he authority from us to work temporalously with them, and to give them every and stance to discover suy onthroak of disease.

9633. Two doctors are better than one in many cause -We have a voteriously surgeon, and a Duky Inspector Dr. Thomson said to his evidence at this Commissioncounty is due to the contamination with the city people. That is where they get the disease. That on vary mods, Mr. Chairmen, for giving me an oppor-courts of making this elalousers,

9604. The CRAITMAN,-I believe, Mr. Gregg, you went to give some further evidence?-Ton, There is and the heat districts of Antrim and Down, but in the hilly districts of Antrim and Down milk as not no

> Even where people have money to have 147-En I shink if the Department would either buy, or less success to buy, say, a Kery ow, or some of these less cover I have been opening about, some good might be done, but unless something very sleep in the mirral line, and something very sheety, could be 9807. Is the Denigal one a distinct type?—You get them of two types. These are about the case of a Jersey, and they are nearly all great milkers and very hardy, and they out five on the heather.

9688. Have you any opinion as to the quality of the milk?-So for as I have beard, at as of a profit for 9600. Mr. Winson.—We have had a letter from Mr. Bishaton Houston, which states—"I am of opinion that the auprovement of a native breed, which to being found to will the elimate and posture, is of the highest importance "'e—Ees, that has been my If we had bred our own outlie, instead importing stock, we would be botter off to-day, 9700. The Charman —Mr. Bielisten-Housien, D.L.

has next us a letter source he has deaft up give sri-decre before the Commission, but kindly giving us har views. I will read his letter, which is as follows:— "I have had about seventy milet come for navenil years, and sell wholesale to milk rotations. I do not keep a hard, but buy on an average thety-dunow youndy. For upward of seventy years, by for the greater part of the bulls bird have been from Sooth blood, which, when best was the principal object, was, no doubt, the right skedn. But now that so many districts in Itelensi go as for mill, it that so many distillate in Ireland go as for mills, it appears to me that the Depts timest checked preferred brills of the Batte stream, End Lennelm, or mill hetter (if not too charr) from the hete of Bason Robinshid, Loyd Vernon, or other gentlemen whe lawer knowled been situation to produce the gentlemen and lessed quantity of milk, and afford thronger with dearns there heath to improve to that direction, or desire there heath to improve to that direction, or I need bardly say I It also cerus to me that less a occident suprevention in the case or use control of the other sets, they are had milkeen, and their is a great damper of agreement formers haveling frees a good-looking bell of their own. The fast cross is good-looking Bull of their own. The fast orses is castly instanged, but a second erose requires mixed mose basededge than they mustly have a property of the p

ears ago, I saw a Kerry cow belonging to Hi-fartin Sutton, of Reading, get the first prize in

Mr. James Genco, M.R.C.V.S., re-communed,

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a little evidence here which I am in a codifica to eive. from the feetile peaks of the Countries of Antries and There is hardly such a thing as winter dairying so if a man's our goes day in January he gots no mili-und! April. The villagers, labourers, weavers spriggers and stitchers get no freak milk from Novemwith home-made bread, and treasle on their ageridge. Now they merely take porridge and white instead of baled broad, but they occase instead of balod broad, but they conseignally raix cheap considered milk with the tro. Many of the spriggres contrast consumption. There years upo scope of the laborators and bacis kept as old firsh tow; sho was as hardy as a gow—also had the power of producing a wooderful quantity of stills on coarse hardugs, and could live over the window on served, for the bounds of these mountain and hall downless. I had the appertunity of studying three last year, on eccessors with Mr. William O'Soff and Mr. O'Doherty, Societies of the County Committee of Beogail. There is still restricted by don't took too pood, but they would be better than goods, and are not from the motion. The influence of the built in very from the production. The influence of the built in very from tracerumous. The influence of the bull in very marked, whether in bereding up or branching down for mife. Some few years upo Mr. Wetson, County Down, conducted experiments in winter darrying for the Department. His best cow give 1,100 gillons in the promptes to be a splended cow, to good as her dam-J. B. N ...... Strandlown, has two heifers (5 veges). J. B. N.— occupation, an over these to year analys estreet, giving one gallon considered sows, and from wors out of 700 gallon considered sows, and from the third in the same possible of the same po hare had similar to wose experience. The same people also have had experience of bells improving the add flow. The lastest of Domanti, own is a good object issues on the same point. That is all I wish to say 9685. The evidence put before up up to the present has been that, save in two or these small restracted arous, there is not say very general sourcity of milk.

Does that represent the condition of things in Dones and Antrine, and the districts surregarding Belfact ...

Mr. Jone G. Harny, -17th February, 3912 animal of that size. I am of opinion that the improvement of a native breed which has been found to suit the climate and pasture is of the highest

### Mr. Joza G. HARRIS examined

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cusmined the house and household of Mr. James Murray, Ballylecay, Cammoney. I have pleasure in stating that the family and servents of Mr. Murray are abactetely tree from some residence reflects too the interior of Mr. Murray's residence reflects too greatest credit on Mrs. Murray, as it represents to the most up-to-date notions of household hygiens

" (Signai), J. C. LOUGHRIDGE, "Medical Officer of Health. " Mr. Barry having retired, the Committee dis

could the matter, and instructed the Medical Superintendent Officer of Health to visit the duty pennises this afternoon, accompanied by the City Veterinarian, and, if necessary, to obtain the assistance of the local Constabulary for the purposes

" MEETING OF PUBLIC HEALTH COMMITTEE. " Depressora

- 20th Jane, 1911. "The Medical Superintentian outcomes of reported that at the conclusion of the business of the Committee ventorialy he found Mr. Murray 'The Method Superintendent Officer of Health reported that at the constraint of the cummon or the Committee yearchay be found Mr. Morray swarting litte in his office. He saw him in the presence of the Chairmann (Councillor Dr. Thomson) and Councillor Innes Jahnston. Mr. Murray and Councillor Innes Jahnston. Mr. persons of the Chairman (Concellier Dr. Humano) and Concellier Danes Advantson. Mr. Marrey and Concellier Danes Advantson. Mr. Marrey and Concellier Danes D was not at the delay on the common of Dr. Bellto's last two wides; it was his write who relaxed to the size of the size two wides. It was been seen to be seen as a size of the size of th

MEETING OF PUBLIC HEALTH COMMITTEE "The Medical Superintendent Officer of Health

Mr. Murry, he inspected by the Veterinarian and Mr. Murry, he inspected the latter's dary on the afternoon of the 20th rast, and examined the threatof Mr. Murray's family and employees, and took scattern swabs therefrom, alach be handed to Professor Symmets for exemination. Fifteen of Stree proved negative, and in the remaining one dighthorn baddle were found. This was from one dightforms becam were found. This was from one of Mr. Mursay's some. A result was also taken by the Velstimasian from a tent of one of Mr. Mussay's cops, and also handed to Professor Symmets. " He submitted Professor Symmer's cortificate as follows:-

(Copp.) "THE QUEEN'S UNIVERSELY OF BELFAUX.

" Dgan Sen, There are dighther is is selly present in the swab inken from James N. Murray. I have not from any each isself in the other extrem swah ecut by you on June 20th. " In the positive case the bealth are not summon one " Yours futhfully,

WM. ST. C SYMMERS. " Dr. H. W. Bailie, "Town Holl, Belfagt,"

9701. The Changan.—You are Chief Assastant to the Town Circl of Belliant.—You, air, and I wish to

place before you the following extracts from the Minutes of the Public Health Committee :— " MEETING OF PUBLIC HEALTH COMMITTEE Diregreess.
"19th June, 1911.
"The Medical Supermisories Officer of Realth

tenoried, with refreence to the softeen's of dightheria sepong residents in the neighbourhood of Somerton road, that on the 6th June he visited the dairy Ms. Imron Murray, of Bellyboury, Cammoney. Ms. Termes Marray, of Ballybrary, Carmonovy, 20c and Ms. Monray, who infolumed alone fiber wise no surkness in Iras Intelliy or emong his employers for the Cartest and State of the Cartest and the State of the Iras of Iras

that he breased was from nome. An unsay as informal inspection of the premises and say a key, when he had not seen on the consisten of his newtons wint, excepting out a byte while milking was going on. He saled premisuse to comine the boy's threat. Six defined to allow him to do this, and Justice's Order for muncellon, and on the 17th intehum from the presence. He then obtained in the conception of the control of the control of the acceptance of the theory of the control of the the class. Mr. Karny opins mit them and mit the problem of the control of the control of the problem. This die decided by patents, and real the problem. This die decided by patents, and real threatment stiffs of the control of the control of willow making their looperious, and in whenepourity the acceptance of the control of the control of the willows making their looperious, and in whenepourity He also reported the Wr. Burry, He Ventriers Laugastic for the Refuse Burr Destruct, but He also reported that Mr. Burry, He Ventriers He also reported that Mr. Burry, and the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the con-trol of the control of the con-trol of the co was the responsible offset for such imposition. The Form Clies's reported that the Charman had con-sulted him by telephone on Sentradry almonous, 17th and the communication with the communication with the communication of the communication of the Miller of the communication of the com-lete and the communication of the com-lete of the communication of the com-sense of the communication of the com-tent of the communication of the communication of the com-tent of the communication of the communication of the com-tent of the communication of the communication of the communication of the com-tent of the communication o be made requiring him not to repuly say milk within the County Bosongh entil meh unfor his been withbe made replacing and such arder has been with the County Recough entil such arder has been with diamen. The Toru Cleak's action was appeared of "The Medical Superintendent Officer of Health "The Messast supermissions Officer of Health reported that he had just then been nelected that Mr. Bassy, the Veterany Inspector for the Burn! Divinit, was in attendance. Mr. Barry was brough? Susy, the Velociasy Impactor for the Burst Devirat, was in sthendance. Are Theory we brought more than the state of the transport of the device of the device of the course of the Coursel and throught to concern the state of the device of the Coursel and throught to concern the state of the Coursel and throught to concern with Beitart in ensuring a pure cold supply. He did not advise the Morrange to designe to allow Exc. Bullet to inspect them dury. He was informed on the Coursel of the Coursel of

the outbrack of dijablean in Scoretory and on the Other Inch. In bring personal head rumoure of St. In., seccessively by In. Longarder, the Medical St. Inch. In the Interest of Mr. Newsyk Collection, make an impetitor of Mr. Newsyk Collection, and Control of Mr. Marry branch, Scaling and seventia, and its certification and the Collection of Mr. Newsyk Collection, and the Collection of Mr. Marry branch, Scaling and seventia, and its certification of the Collection of t - Report to Belfact Reral District Council on 10th June, 1911. - Winess with, 15th June, 1911.

" To Chairman and Members, Belfast Burn! District Council.

Belfact Burn! District Council.

" I beg to report that to-day, at the request of, and accompanied by, Mr. Berry, V.S., I carefully nted image digitised by the University of Southempton Library Digitisation Unit Mr. Jones G. Hanners,-17th February, 1912.

He also headed in the following reports .-"Prince Health Deputioners, "Belower, 21st June, 1911. " To the Chairman and Members of the Public Health Committee,

'GENTLEMENT,—I beg to reform you that on the 20th met. I inspected the darry of Mr. Murmy, Caramoney, and are of opinion that infectious diseases wasted from consumption of the milk supplied.

" I am, clo., H. W. BAILIE, " Medical Superintendent Officer of Health." " 20th Jane, 1911.

" To the Public Heslah Committee. " Oceanismics,-This is to certify that, in my opariton, infectious discoure, vir., diphilarin, which has broken out in the Fartentillium district of the cety, as alternative in the large of the dairy of Mr. James Murray, Bullyberry, Carconsey, and I beau this opinion on the fact that diphilarin, health have been found to be present in the threat of one of Mr. Murray's children, as is cartiful by Professor Symmers, Barterislogist, Queen's University.

> "HUGH WM. BAILLE, " Medical Superintendent Officer of

"Mr. James Murray, the owner of the dutry, attended, and promised to send his wife and family away for some time, and to allow the Medical Superintendent Officer of Hashin to dissifice the precities. He was served personally with noise under Section 4 of the Infectious Disease Prevention Art, 1800, to appear before the Committee at 11 o clock on Friday, the 23rd Inst, to show cause why no coder should not be made requiring him not to supply mult within the County Borough unit such order has been within made to a supply multinotice under Section 49 of the Local Act of 1887, requiring him to foreign a complete his of the names and addresses of all his customers within the County

"Besolved.—That the Committee be summered to meet on Friday, the 23rd mats, at 11 o'clock, to most Mr. Murray, in presumes of the notice served upon him under the infections Disance (Pro-

" Submitted draft letter to the Belfort Rural District Council, no to the attitude of that body and Steir officers, and the advice stated to have been green by them to Mr. Murray. The letter was

" MEETING OF PUBLIC HEALTH COMMITTEE.

" 23rd June, 2911. "The Medical Superintendent Officer of Health The Measure outpermissingers officer or measure reported that in necordance with the Committee's instructions be yesterday again visited Mr. Murray's premises, Ballyberry, and disinfected his boose and Mr. Marray had sent hee wife and family away to should not be made requiring him not to supply soshould not be mode requiring him not be simply say, mally within the Gentry Records (and the not seek and best withbriven. He should had he had not him he had been the same that the same that the he had been the same that the same that the Public Health effection, and the milk-best line-wards. He was saided if the Committee deliveral manufactures and the same that the same like the same that the same that the same likes the same that the same that the same direct beam he field to the controvers, have he mid-dered them the field to the controvers, have he mid-cons distributed by Board of Guardiant' Somm Dis-nicative, and love his milk care in the open at Mr. Mirroy undertook to do thane things, and the Committee, heard satisfied that if these presentation were adopted no risk of further infloration from the milk would noise, deferred for the present making an order under the Infloctions from the milk would noise, deferred for the present making an order under the Infloctions Discusses (Prevention)

9702. Mr. James Grego.-I have been saked, Mr. Courses, by the weinesses present, to express to you Comman, or any great appreciation of the measure in waves their very great appreciation of the measure in waves you have conducted this Inquiry. It is the universal option of those who have pot experience in this seri-of week that they have never as any time rask a chairman who has brought out the facts from the distance was until as able and conference meaner. They sho with me to express their thanks to the other members of the Countlation and to the Secretary for the great courtesy said kindness thay have shown to the witnesses who have been consumed here.

Mr. Thomas English .- As one of the wendow of soils Mr. Thomas Simplish.—As one of the weakers of mili-in Belinat, I would like to codese the remarks made by Mr. Gregg, and to express our thanks to the Con-ressoon generally for the very valuable information (top have elicited in the secures of this Inquiry; also to you, Mr. Chairman, for the peasition and respect manner in which you have estaineded the proceedings I have been delighted with the questions timt you have I have seen sengeted with the quakkens that you have got to the witnesses, and for the very valuable views you have eliminated; and I have that the Commission will have practical results in procuring a larger

Mr. W. S. Merrew.—So one of the farmens also appeared before year, and who has flatened to a good dead of the evidence, I thank the arrangements made there been admirable, and I do not think my kinn has been left. I leg to year in the expression of thesits to the Chrisman and members of the Commission.

Mr. W. R. Cresseed,—I have great pleasure, Mr. Chairman, in agreeing with what has been said with regard to yoursell and the other members of the Commission. I raver was so much pleased with a Chairman in all my life. The CHARLEMAN.—I am extremely grateful for the land expressions which have been used by the speakers in reference to the members of the Commission and in reference to the members of an examination myself, and I key to referr you my sincere though 50 which behalf and my own. We have eatin here for one object, and one object only to ribrit facts, and we have underwomen to accomplish that purpose. I am

extremely grateful for the assistance we have received,

concerning grateriat for the assistance we have received, and for the very elect and capitoti manner in which the sutnesses have expressed their views, and I are sure we shall all retain very pleasant recollections of our viels. The Commission then adjourned to Dublin to the 19th Pebruary.

### TWENTY-SECOND DAY.-WEDNESDAY, 287H FEBRUARY, 1912.

The Communishers met at No. 5, Upper Castle Yard, Dublin.

Present:—P. J. O'Neile, Eq. (Chairean); Lady Evenand; Miss Margaret McNelle, Sir Strwart Woodrouse, M.D.; Gerder A. Moorhead, Eq., Krickl., Alec. Wilson, Eq., Dernoo O'Bries, Eq.; J. R. Campsell, Eq., R.Sc.; Professor A. E. Mettam, R.Sc., M.R.Cy.

S W. STHANGE, Eq., Secretary

### Dr W. Austresov Woos, M.D. M.S. (Melli.), B.F.B. (London), examined 9703. The CHARMAK.—I should like at the outest to passled book to pasteurised milk

express, on lebels of my sulfragen and negotif, over your guides to the Wood for its labelears in why from guides to the Wood for its labelears in an his forces desired his labeleary to sak him to got member to be the work of the work of the work of comments for saling him sould read removalenees to get resize belief. see We see very grateful, indeed, Dr. Wood.—I stategy out. I below on the first as a Dr. Wood.—I stategy out. I below on the first as a Dr. Wood.—I stategy out. I below on the first as a lowerman, on the sake you can be an undersided and the work of the sake of the work of the sake of the work of the sake of the sake of the sake of the work of the sake of

PIG. And were uncounter were to have meeter effort had to be made for the purpose of amining the poor in obtaining a milk supply?—Yes. 9707. World you be kind enough, Dr. Wood, to explore to the Communium the causes that led up to explain to the Communium the causes that for up to this effort being mode, and the nature of the effort likelf?—For many years part the medical professors, particularly those who largely attracted shiftens realized that the destitutate, superisky daring the summer moments, which with us in Australia are very bot, was very great, very much greater than was necessary; that the number diarrhea amongst children was a proventable discose, and it was that discose that produced the main deaths amongs the children under code best concreted on the unique had been trying to colarate the politic by manse of lectures and eitherwise. And with very poor results. We could not get the had with very poor results. We could not get the without the poor results and the politic better that are writted then to do, and to realize the first that the course of the course of distill remarks after the course of the course of the course of distill remarks and the politic best of the time of the course of the course of the course of the interest in the master, and I think that we really the teneric politic fits which question. When someone interest in the matter, and A times, was two councils towards point in the whole question. When someone in authority takes the matter up, it seems than that the public who can help us begin to take us interest in the matter too. She suffick a meeting at the Government House, to which the ioritics, not only the medical soli illerionia in the nature, was the fleximents of the control of admitted proposes. The which statistic of control for admitted proposes. The which statistic control is not to extract the control of money, which was a service makes at the proposal that we include as a service makes at the proposal that we include a make the control of money and the control of proposal control of the control of proposal control of the co are in our standard. There was no farm their we could nay wee in a condition to produce the pure raw milk supply for the oblition, so that we were littrally

# o pushed book to postcurised milk for the first year, end we started in a small way to supply infrarts with postcurised milk. It was not altogether satisfactory. It was an improvement on the old way, of course,

The patterned milk was differed to beities, and it was differed oil, and so on 10 the entity saw determined for apply healthy new ords. The first year determined to exply healthy new ords. The first year of the control of the contr

The second spin, a faster of the probability of the second spin of the

tight structer round whosh the nelfk was torned, and then it was pound through a cert of small guiter info a refrigereding room. The nulk was kept cold by a charge quantity of ter, brine, and so on. It then passed over the collising cooler, with odd paster

Dr. W. Aranasov Wood,-28th February, 1982. remains through the taps. Then if was bottled in the cooling-rooms by assistants shall in steriffied overalls. It was fastened by means of a particular fastener that It was fastened by means of a parasitar narraw that we had. We tried a great many fasteners, but we came to use one with a rubber washer and turned from were too. The milk was afterwards not table owner were soft. The mass was anterwiside just lake credes and period in loc, and then, four hours after, it was delivered to the houses—at all events, it was delivered in the special delivery costs within four boses, and all the time the temperature was kept below, and all the time the temperature was kept below of degrees Pairs. The delivery care delivered the bottles of milk from door to door at the houses of the needs who wanted the milk. The milk was delivered in these crates packed in ice, sod the householder was supplied with a small ice-chest, containing sufficient ice to keep the milk cool for twenty-four boars. The expense of the tee was a pranty a day, and the milk was always kept below 40 degrees Fahra, until the rulls, at least once a week, getting the worldy weight of the child, and keeping records as to how it got on; and if any children were ill she would sometimes visit them as often as once a day. There the education was seen so often at once a cay. Insert the concepts came in, because the name was not only to see that the saffic was used, but to instruct the mothers in the sare and elevaliness of children, and in general eleminoses; so that we found that the name, who was very sensible, testful woman, was the means of disseminating general education amongst the wo most excellent. The medical men's reports were all that could be designed, and us for an one could see

from what the mothers and afterwards—it was a very good test, I think-the mathers were bitterly disappointed when, during the winter menths, we stopped We did not think it necessary to car the supply. on dering the winter months. Our funds are lumited. The mostless in many cases were very hitterly disthe mothers in many cases were very alterny an-appainted through the stopping of the milk during the winter mankles. Now, we find that with methers of the poper class the education is beginning to be dissertmented, and we feel that we are strongly on our feet, and the mothers are being educated to a very great extent. I may say that the milk is diffy green covern. I may say that the milk is dirily inapacied, not only by the Government inspector in the way of preduction—he is always on the spot to see that the milking is earned out in a cleanly way, and also the handling of the milk—hat we have a hasteriologist as the University. Dr. Bull has four dully samples and to been for examination; the expert at the Veterancy College less also four samples sent to him daily, and then we have our biological expert at the University, Dr. Bothern, who examines it for

aghide and fatty contents, and that not of thing; so we have three experts commissing the milk every days 9709. The Crammux,—Whot standard have you fixed with regard to the fats and solids?—We take the good to too 1915 and section.

seat standard, which fixes the percentage of

5. I forget the percentage of the solids. The Generalization seatomos, data six a fine saints. The solution is a sale, we come a spatial recover are Agrillarie cover, and, as a rule, we come well above the SLS pur cent, standard of first, had I may let you into a little second here which did not come out, the saint ste milk was helpy 3.5; but on investigation we found 

the same thing—where cows did not come up to the 5 per cent, standard of fet—the legal standard in this country 3... There is no doubt that the time a low is milked does affect the fatty content of the milk stelf. 9711. Mr. Charrent — You were going to speak of the hastorial content of the milk?—Yes. The content, of neuroe, wents as it must do, but during the has numers I third our sweage content was about 5,000 per c.c. We have got it down to even as low as 250 per c.c., but 5,000 is a perticularly low content. Sometimes it is up to 13,000 or 14,000, but I falm everage to is about 5,000, or 6,000

9712 Was there say information kept as regards the kinds of bacteria, or was it the ordinary lectic scide? —No. Shere were several kinds—akuli, which one need not think shout very much, larks and beelfs, and the hippriying one, and I may my think, as a rule, they were of the sort that did not unlade thereof on

9733. Dr. Monanau.—They were not pathogrames.— We found in no case neitherweig bacteria. I forgot to eight cous on an average, and out of that murious uene originally condemned on account of tenetical the out of the veet the one are removed in time-culority, so that we me pretty safe in looping the tubesche health out of the nath. There was one or two cover that ware post out of the healt for having mentions, and at one period we write very much exceeded to our months at to this high backerind content, and we could not quite make it out, so we determined content. Amongst these unnety-right core we found two or three that are known as "cocoal" cown, the are apparently healthy, and yet they are giving a milk that as highly charged with court, and these are recognised now as "coved" cows. You can only are recognized new as "overall" core, and the significant cost that they are dangerous by examining each to six well against. When these cows were I believe, are pathogenie.

9714; Prof. Herren-What lead of cocci did you find?-I thank that were stophylococci. 9715. The Crancers,-D6I you descriptions between the people to whom the milk was given, or was it for the very poor only?—Ton, and that is where we had tenable. The Institute was started as a philanthous institution; we delivered the milk to the poor people, and three the hetter class people began to any oot and say, "the poor people are getting this milk babies also and we want the milk too."

We said, if

there is anything over, if our supply is greater than our demand, you can have what is left, and we begin to supply them as cost price, which was 6.20, per per-276. Min McNiro. Here would that we 9717. Is the standard of living higher in Australia"think, midway, between that is higher. It is, of this country and of America.

9718. Prespence a pint there would come up to expense halfpenny with ne?—No, less. Our scale of living in higher than in Eucliock. 9719. Mr. Carronna.-What is the average price of commercial mifk in Melbeurne?—About threcornee a

\$720. The Channas. Was the milk in your Institute distributed at a reduced price?—It was distributed at a reduced price. We prior -- it his distriction in a resulted prior, charged a persoy, twopener, or threspener a pint in the poor proude who could par, according to their shie to pay, and the poor people who could not per snything were applied from We always had a certain number who got the milk for nothing. 9721. Mr. Winson,-Woold this estuation as regards the price—you have rases the

The cost of gasket-price is about twopence. our milk is a little but more than double. 9522. So that to get a comparison here we shreld she out malk proor and double it?—Yes. take our milk prior and hould it?—Yes, 9733-4. The Chameter,—Have you now taken over the ferm?—No; a man named Hope has a farm and be supplies us with milk at a fixed take.

9725. Under the conditions presented by you?-Yes, 9526 And you give him a fixed price for a certain quantity of milk?—Yes, 9727. Has be increased and developed his head it order to meet your requirements?-You. He has been

most generous in all things he has done in regard to that, but at the same time, of course, be is advertising his own militing machine. 9728, What I manted to get at it this, the armage-ment between you and the proprietor of the form in 9729. He has in no was mainted the work you ar carrying out by giving you the milk under east prior?-No, it is a purely commercial arrangement.

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9730. And all the cows are Aymhires?—Yes. 9731. Are they pure bred?—Yes; fairly good. 9732. Mr. Wance.—What does your Amoditation per the farmer for the milk?—If you would not mind

pay the farmer for the militi-II you would not mind withing that quasifies storm, in an give you the five-iation on. If I sectod apply them now I can apply provide the contract of the contract of the contract varieties, and I do not want to give figures unlies I. am fairly some of them.—Tow I natifies a not worked 1953 III. Careau, Teams the people we not able to pay the full price of frequence a pint for the null. The Chrisman—The production to contride set on a

Prof. Mirran.—The distribution is philarthropia.

Mr. Carrenta.—It is really an experiment to show
the effect of pure milk upon the death-sate of children? -Yes. 9734. It as not a commercial experiment?-No

9735. It is not a commercial endertaking, and you No. We find that we are educating the geople; that the better class of people are string any arise for milk 

perpared to pay an enhanced game for an article that comes up to your standard?—Yes. 9737. That is the result of your educational experiment?—Yes, and we are markens for other durine to come in and sell their milk as "Talbot" cames so come in and ten their main as "Talbot" malk, if they come up to our standard. 9738 Have any offers been made by dairies?—Yes, but no our bus come up to our standard conditions.

With Heat and offers from make by consequences of the CPU Heat and the profited substitute to consider the CPU Heat and the profit of the CPU Heat and the CPU University). He is really a rate of world-wide fame; and then we have certain Contribe represented— Melbourne City Council, Collingwood City Council, and Pinheim City Council. So you are that no Govern-ment or anyone size outh start a body that would ment or anyons clae outh cleat a body that would be more representative than those people are. 1916. The CRAIMERS—Here you received step references either from the State or from any coperate body?—Fig. There are five or six Connells, and they give as from 200 to 200 oct.). We received exhibit from the State of the State of Millson from the Millson and State Millson from the Mil sense from the Hurisipal Councils of Melbourne, Perbeno, Collegewed, Fistency, and Stouth Hubbourne, 944. Were those contributions from public funda 5— Yes. The amounts we have consequent on fur the private individuals do not realize over 420 altogether. I are not constitute. primine intermediate to the Hard over And Integrate, I am not counting the original amounts that the Tindle pave. Last year we got a great of £1,000 terrords the funds of the Lucidizat from the Govern-ment in addition to the Municipal grants. 9742. Mr Winners—That is the State Government?

Well. Not the Federal Government?-No, the Government of Victoria. 9744. The CHATRAN,-What are the Councilla repre-SCHOOL ON JOHN MORNING PROMISED THE STATE OF THE CITY CENTRY CONTROL OF THE CITY OF THE CI to it is put of their duty to look after the health of the children in their districts, and some of them have towards the Institute more liberally than 9745. Do they impose say condition with the con tributions—do they demand that a certain quantity of wilk shall be distributed to their area?—That question has not come up, because we have always been able to supply my applications this we have had 50 milk. These applications some in from the surreas or section men. If a medical man has a case that he thrule cought to have the Tablet milk he orders it, and it is

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Dr. W. American Wood - 28th February, 1912. glied. If the better class people apply to cor-retary he will tell them who is the local distributor

in their district. in their district.

2546. Can you tell us what arrangements have been made for maintal attendance on the very poor, in order that we might assertion if there is any analogy between the conditions in Melbouras and heat—Princip. between the conditions in Restourist and name—rises of all, there see the beophysids. Before persons are admitted as positions they have to tell the lady in charge at the door how much that humbond areas, how many children in the family, and all those little things that yo to point out what that francaid con-dition is; and if it is found that they are in a position of the condition in the condition of the con-traction. that they cannot afted to pay for a medical rear nativately, they are allowed to become patients, either

medical assistance. The greatest number of people belong to clobs, where they have their club dectors. helong to althe, where they have their child distinct. They pay so much a year, pechage from 15f- to 84f-, for looking after the husbands and wreas and children, up to a seriant age, of the members. 9727. How see the marchess of the profussion recom-pensed in the hospitals—are they past by the Bisto er by the food authority—We only hope to be recom-

MCCCCEAO, -We will try to keep out of the

Dr. MOCCERMO-TWE will tay to keep out of the record as length as the effect, you come to the concentration that the effect of the configuration of the confi trade to enlivate them. It does not kill them, it hashs up the spore, and mark day that spece is beened asto a great many hundreds of thousands of basilit. That is what posteroranto recisis to do. Than, of course, there are other points—it is a quantion as to what ser of opartermating, you refer to. There are two methods of posteroranto—the shades. The college was the basility of the college o two methods of pustourisation—the flars and to-holder. The ordinary commercial method often refere to the flash process, which is heating the suit up to 180 degrees for about five measures. That does not get md of the burnt tasts for one billog, and R is not as reliable in many ways as the other saethed.

9750. Is the Institute coursing on its work winter necessary to carry 9752. Is the pastergravitie of milk at all general in the ordinary supply to the city?-There is one comthe ordinary sipoly to the city?—There as one some party that suppose protectorise duff, and it was that a suppose the control of the city of the city Indicate with Governous help. They objected way strongly to this, and we had a great tunnle with them, but sevotosily we come out all right. That was the hot sevotosily we come out all right. That was the control of the city of the city of the city of the on and do before with the price rills, our relations with the company become strained and they do there has

9702. Miss MoNaux.—How did they pesteurise for rou?—They had a large truk in whole they put the suill. They pesteurised in hole, and step had a large test, which was supposed to held the milk for twenty suincister at a temperature of \$45 degrees or 120

9718. The parterrising was not done in small quantities?--No; it was done to built. 9754. I think that has been largely discounted as a method of pertensisation?—Yes. 9706. And then put into vessels for home consumption afterwards?—Tou often get it confarmated in the cooling process afterwards. ocoling process more than 1979. Without at all questioning the adventages of new risk, don't you think a good deal of the objection 2 Q Dr. W. Arxinson Wosa,-28th February, 1912.

to pasteurised milk has been due to the fact that it has been pesteurised in bulk, and afterwards people, perhaps, see not too careful, and that it is in that way that some of the trouble has arisen. I think one why that some of the tweeter has a reaction. It also also of the great derwhanks in that pastcurinition interferes with the education of the furmer. If the milk is being pastcuried, what is the use of all this cars on our part, they say. What I would support is, first of all, part, they say, wasse a women suggests to account that you go round and get the solid joots of the central that supplies the mill, the conditions of the sheds and of the cattle, then I would suggest s, and when the education commence to take to grow, you will be in a position to better k supply. You will create a demand for a your milk

milk. you do not see may very serious objection in supplying proteurized milk for behins until you can guarantee the row milk\*—It is the only way out for dirty milk. 9780. Even for a milk shat is not duty, but in case of milk about which you have doubt 5

9760. Although you think that condition would not

any great trouble for gr regard to infents?—Yes. grown people, but unsafe with 9761. And one in that once would be drawn to 9702 I would like to know whether in your first your, when you pasteurised the milk, did you find stay very strong oridence of hazmful results?—Yes,

9763. That was milk parteurised in bulk, and if it was dirty is would be always dirty?-Yes, 9704. You have milk that you h "coosal" milk?-Yes, milk that you have described as

9765. If these cores are not orporated from others in the heed there is a risk to the behins?—Yes. 9705. And in that case pestcurisation would be useful!-Quate so; it would. 9787. Still, at the same time, the raw milk would be infinitely better if it could be got slean?—Yes.

9768. Prof. METTAN .- Do you think that the ordinary 9765. Prof. METTAL—Lie you think that the obtained pasterriestion would kill the coool in the milk—lit bills will the pathogenic batteria when it is done stientifically, but commercial pasteurisation is not 9709. Mr. Willoux.—Careleaness occeps into the couring of commutated pasteurosation?—Yes, often. We

9770. Miss McNxmz.—Even though they were par-ticularly good mon?—Yes. Sometimes even a super-visor should be witched. 9771. The Chamman, Human nature is pretty much

hopeful that the interest that has been aroused in supplying pure milk to your city is likely to stimulate the mubile authorities to take up this question as a supplying pure mift to your city is mady to alternate the grable authentics to take up this question as a master of visid importance to the public health?—On that point I would like to quote the following extract from "The Age" of the 7th Orecore, 1991.— "In the exceller inseed to municipal courses

"In the curcios insued to municipal contents, providing stem to attend a conference on the 23th Ootober, regarding the milk curyed, the Astron Minister of Health states that he will be prepared on behalf of the Stote Germanous means of arts potence as the hants of the debate. This sharem will include a proposed to establish municipal debates the content of the state potency will include a proposed to establish municipal debates. The sharem will include a proposed to establish municipal debates the state of will feel the state of the milk depote for the supply of milk for infrate, the efficient importion of darry beefs and dairies, and the providing of a surse or nurses to assest mothers in the eare of infants. Dr. Cameron will be asked an the eare of infects. Dr. Comeron will be saked to represent the Agricultural Department, and Dr. Johnson the Public Health Department. One of every 100 children born in Victoria during the few years, 1003-2006, the circular side, 3-12 dreb before renabling the age of one year, an against 11-11 for the ten years ending 1960, and 7-13 for 1900. Durse, 31st March, 1911, there ware 671 deaths of children under one year of age, as ecospered with an everage of 867 for the same 073 others with an everage of 897 for the conceptual with an everage of 890 1996. The relaction is mossive in 1800 was equivalent to a saving all States in 1800 was equivalent to a saving all states 1.257 were u. Violents. all States in 1800 was optivalent to a naving of 4,531 affair, lives, of which 1,257 were as Victoria. The principal unit in the causation of the high infantile meritality is undoubtedly a faulty assign, supply. The question of a pure (raw) mile amply or a guartied [pasteenized] supply, or both, and received or supply by exitted or by local belone, still be considered by the conference."

9572. That would now to indicate that the public consumes has been necessed?—Yes, and since our Premier, Mr. John Mursay, word to Coperhagen and sow the milk there, be has become very much inferented in the question. Before that he was

9778. Is there a central numbered authority in Melbourne representing the city proper?—Yes; they have taken up the mother only just quite lately. They 9774. Now you have practically all the otherities sympathetic, if not contributions

authorities sympathetic, if not contributing S. Not quite all. The health officer of one place stocks to his pasteurised milk, and there is the company I have already spoten of this did our pasteurising the first year. They and cornelves had a very hot argument. year. They and corserves and a very one organical, 9725. There is nothing very unusual in that. Any really drastic reforms always excite a person amount of boothly, perticularly on the part of people who see affected by the proposed changes, or for a variety of other reasons?—Yes.

9777. What quantity of milk would that be seff-joint to keep sect?—It would keep two or three point practionly below first degrees for teasily-four bours. The milt that was seed up to the laboratory, and was buylt under these conditions, remanantal week for ferty. cight hours after milking. 9778. You spoke about two processes of pa-tion—the flash and the holder process?—You.

pays. What is the difference between the two?-In minutes or half an hour; they half it pestigally at a temperature of 445 to 150 degrees from breasty minutes to hilf an hour. In the Bobb process the mift is heated to a higher temperature, but only kept there for about five minutes. 9790. Have you much toberrologe in Australia?—I

of the control of the origin?-You have neked me a very difficult enestion 0785. Dr. Moorman.—In the case of renoters among your dairy hards, what do you do?—In our particular do with a new that reach.

9784. What becomes of her?—Probably she goes into

another heed 9785. She is showed on to the next man?-Yes-

What they do in America with cows that reach is, they get the farmere to beliate them. They keep them it separate producers, and may draw from humans seems. They don't allow the owns even to get their most together on the produceds. They allow the mails to be sold if preducting, but not otherwise. If the core get to a further state they are allowed to go to the absolution and the impaction decide about the man.

Dr. W. Arkismos Woon,-38th February, 1913. 2608, Prof. Marrau,-Does Dr. Bothers charen?-

6786. They make an effort to ours them in the first instance?—They care by prevention only. They don't let any somest that reach go arrow the beders of a Siste; and they are making it very difficult for feature to keep tablesoptions over at all; and if an animal resoluso acry suscessions open to any man of an animal rescen-tiony have to keep it separate from the others. 6687. They have compulsary power to some a clinically toberously beauty—I don't think so. If you were to just out away cow that reacted there would be a really furnise. 9788. I take it fast them must be a great deal of takerole baceful getting into the milk supply 5—Not processarily. Many of the animals that reads, say, 40 concessity. Rany of the mirals that read, say, 40 per each, do contemins the neuron, and so as miselve species to be color over in the bests, because they pass tubecale bedill is their faces, 6760. It is not at all necessary that the satisfact should have a tuberculous udder in order to be highly dangerous?-No.

Most of the denser comes from the facous of the cow?--Very often. 9791. You say that the cost of milk per pint to your Institute is 5:34.7—Yes. 9792. You can get a dressed amongst the better olasses S-Yes, they are only too pleased to get it. 9703 And that is nearly double the ordinary price of milk -It is double.

9794. Why is the cost so high?-I can give you the details of the cost. The following table shows the amount which such plat of nells delivered costs the Institute, and the various headings under which such cost per nus occurred -

Gross expenditure ... A717 2 9 Not defler deducting proceeds, sale of milk) 596 0 0

Amount of milk distributed ... ... 94,432 piets

Not Not Cost Exceediture. Cost. Cork. per Pint-& s. d. Proce

201 10 4

74 10 9

99 13 7 Perobase and Dell'erry of loc ... 56 6 4 42 2 5 Nurring Expenditure 121 13 5 90 19 7 Scortary's Salary. 96 0 0 28 10 4 -519 Collector's Salary . . 43 10 0

Purchase of Milk ... 209 9 11

Delivery of Milly .

Office Expenses ... 90 9 6 23 15 9 ... 2717 2 9 2536 5 0

9700. Lody Evenano,—This is all for six months?— Yes. It all reckons out at, roughly, \$500, and the art cost per part is 5-264d. expenses, and the cost of the nume giving instruction 9797. Miss McNerra. The owner teach the mothers how to modify the milk? Yes, The nurse sets 290 a

996. The CRAMMAN,—The figure that you give, 57864, per pant, covers all the expenses, including the ite and the coolers for the milk?—Te, and the officers' 40th collection' expenses. These are all included in the

NYO. Mr. Winner—You do not recken the com-mornal profit and the capacit is portions.—That is so the Government silvay that. The supervisor is always on the farm. Mr. Exp. does not pay for that super-vision, nor do we. The State pays for it. 2600. Of course, the Committee in charge gran nothing by 67—No. We get all the kicks and none of the intipence. 1601. If we were to get the same thing carried out in this country on a commercial hads it would double or troble the cost of commercial malk?—Yes, 9802. Is the beoferial test voluntary?--- We give Dr. Bull 650 Dr. Gilruth is a voluntery? We give Dr. our best. We gave Dr. Bull 650 one year, but all

the tests by Dr. Gilcuth are done for nothing.

2004. Dr. Mocomman.—What is the average yield of a cow in your herd?—That I cannot tell you. 2005. Do you apply the Widal test to any of the attendants of the cove, or do you approve of it?—No; have not done that at all we have not done that as all 2006. Lady Evreano, Have you ever had outbrooks of typhoid which you traced to carriers?—You, in the nift supply. We had a very bad one and note one we had come from one dairy, and peneral mile supp was a typhoid carrier.

T. What became of him?—He was shut up by SECT. What

9808. Prof. Marraw.—Has the Government still get the carrier?—They put him down in the small-pox quarantees station, but I do not know what became of nm stoce.

9600. Beause no one san say when he becomes
absolutely free as a convier?—No. He is better there
than in the uniform deary.

9610 Dr. Moonman.—You have a Bureau of Haulth?

And a Munister of Health?-Yes, he is Minister of Health and of Agriculture 2012, Mr. Wilson.—What is the nature of the ordinary milk supply to Melbeurier?—There is this large parteurising company that I have already referred

not up to our standard.

9013. Boss has company got a supply from different farmat—Xes, ten or travity different places.

9014. In these any position mode for the handling of the milit at the rathery stations in a proper manner?

—80, that is a thing we are saking for. It is a great the whate. We want refrigerenting cost toddy, and in

the summer time we see these cans put out on the 9815 Have you got any optivalent to our Dairies Order, which insusts on sentence conditions in the burn?

—That is being dons very excellently by Dr. Comeron and his Agracultural Department, and the education is been carried on credually. There is no doubt then 752 are considerable improvements spine on in our sunseni set considerable improvements galage on nour general milk supply, owing to what the Duriy Dupartenant in delay. They are doing a great deal, and all tisses of the provider of the provider of the control flow per fine men and delighbil document. I was through Westington a little white ago and get a number of pumpiethe that have been insued by the Bureou of Antireal Industries. Probage thay would be the provider of the provider of the provideration of the provideration. 500 of the to the Communion. If appropriate was more to the Burnau I am sure copies would be supplied. 9816. The Caumonax.—I will sak the Scoretary to take a fast of these publications in order to make application for them?—If he writes they will send

2627. They are quite up to dute?-Yet.

2838. Mr. Witaos.—You give a somiderable markity of this milk to people in mass of poverty?— No. 9819. Of course, you have in Mchaurne nothing like the slam quarters of our cities.—There is nothing comparable to what is in this country. 9830. Is there a shortege in the nulk espois?-No. 9821 Can you give us an estimate of what quantity of milk a labouring man's family would buy?—He 2022. Does his wife buy it as a matter of face?--

would not like to give you an estimate, but if they wanted to buy it they could buy it. There is no shortage of money or of milk. 9825. Has your enterprise had any notomakly effect pet-have you been able to make any affect on the commercial deliver about you? In this way, that saying that they intend to come up to our standard one. differen. We visited many farms, and they do make improvements, and I think that in time there will be greater improvement.

be greater importanced.

2024. Have you moliced any effect on the prislectily for mile—have the darryane imported their
initial and reifed their gitant—The posteroining occupany. Utahib, charges a little same for milk in bottles,
owing to the lectalizer and the stemlisting.

2023. By you conformable developing your melous
into what see weedst call a Generation of Department.

Dr. W. ATRINSON Wood,--38th Petersary, 1912.

or Municipal deire?---We do think that the municipality cepht to take the thing in hands and carry it out. We do not see why we should be condemned to carry on the husiness part of it always. We think that when on the breakes part of it slexys. We think that when we have chranch the pools, it has unimposity or the Government should carry it on under proper super-time, and we hope that they will be that. We will be that the plan of campain that yet of the the think of the plan of the plan

what we get now.

9638. You do not regulate measurist contamination by
a definite standard?—No, we go more by the general
besterial content, and if it is above the normal we point It out to the inspector at once. In one or two cases we is out to up inspector at case. In one or two eases we had, perhaps, trouble in that way. Once the centri-fund machine for filtering the milk was not acting properly, and we know from the hecternal return that there was something wrong, and we had it remedied.

9810. Dr. Monniero. - 5,000 c.o. is your standard? you fixed 5,000. 9850. It would be exceptionally low?-Yes.

1880. If would be exceptionally low?—Yes. Lately on example above flow to believe on flow and 3-2600 and 3-2600 methods of the control of the second of the all 3-2600 and 3-2600. If it goes beyond 19/300 sec you thus appears 19/400. If the second of the

Froi. METEAM.—Say for species, not for numi 9806. Mr. Wilson,—With regard to the m 5656. Mr. Winson.—With regard to the milking mechane, how do you get it cleaned?—We have get a very thorough steriffsing apparetus on the farm, rebber parts are all put in noda solution after each milking, and all the other parts are carefully stortheed, other onfik, no preservatives are allowed to be used.

and that is done after each milking. 9897. Do you not find that is very severe on the rubbers?-It is always carried out. Perhaps it might

9888. The reason I say that is because I use myself the same presses, and I find that there are farmer selling milk as a commercial proposition that would setting milk as a commercial proposition some woman regard the cost of renewals of the rebiners as high?—I have not beard Hope complain of that, but he com-plained interly of the number of builder that are 9839. The Courseav, ... Is that his low?-Yes.

1840. Mr. William I got this result—that a sample of hand-milked milk would have a less content of harteria in it then in the case of souther sample, similar in every respect, that was machine-milited, and that is would go sour very much quicker?—We found that as a rule the machine-milited milit had fewer bacteria than the most currellly handsmilled milit 1841. My figures were that the machine-milked milk

costs my napron were that the machine-million mills obstanced more batters, but this the harboris suppared to be less effective?—We found that the average number of buckers present per c.e. in the band-nelflod mills was 7,600, and in the machine-milled mills 6,700. It was found that one hundred and twenty-div cursue of hand-milled mills contuined at yout twice on amount process in one manage milk. I omitted to my that the chrypings are always removed by hand, and that their subsequent addition to the machine milk second, to deteriorate the latter

9842. You did not happen to carry that test to the point of discovering the effect of the mechani bacteria as compared with the effect of the hand-producing

'843. Has the demand for the "Talbot milk" m. "848. Has use account for the "Talbot milt" in-creased?—Yes, decidedly. We decidedly sell more now shan we did at first. A great stell depends on the scenario we have. The summer before hot was a cool 9844. What begress to the milk produced on this form of Home's in the product - It is taken for concess cupply, and he supplies ships a great deal-1840. Dr. Mockinzar,—In 16 grass-fed 1845. Dr. Moonman.—In the grass-fed milk?—No. He has got twenty arres within max miles of the city, he has not unlimited supplies, but he has a silo, and grown crops.

9816. Do the cattle get conflage?—Yes, they like it.

9817. In that the "nifalfs" conflage?—I do not
think it in. There is clover, I thinks, in it.

9848. There is no taste in the milk?-No. 9849. In 16 the sweet or the cour process of enellage?

-1 oring to the court.
9800, it does not make the mrik smell?—No
9801, Mr. Casesanz.—He milks his cow in a bouncether than the place where he freels them?—Yes.
9803, Mr. Winson.—What perse per plut or gallon veca, Mr., Wilson,—what proce per pint or gained does the farmer receive from your Lishteste, because he is deing at to make a pecta?—There were 24,000 pints, and Hope got 2250. You can work it out from

that.

1953. He received £200 for the milk that was pos-duced in this place?—Tes.

1955. That works out approximately that the farmer receives in 60. a gallon for his milk. His unierest in the achieum is a commercial cos?—Tes. 9835. He has no expense of supervision?—No, not the slightest. The Government pay the cost of that, the singulati. The deverament pay the cost of this, the point I would like to mention is, this the cheepers and most officiant way of supplying mife to an individual behay of family as the my that I have always adopted in regard to my own family, which have been breight up on artificial food. There is a park opposite breight up on artificial food. There is a park opposite my house where cows see allowed to run, in coses see milked by a gill who does no farm work. She has got clean hands, and washes the widers of the ow before militing. She milks into our "billy," whech is a tru result with a cover. We sterline the recode, Else before militing. She milits into our "billy," whech is a tim received with a cover. We sherfine the vector. She milits into the "billy," and we tell her we must have the milit water from the cove. It is becught directly up to our horse and put into ice. The cow it could be be sherred to be a superior of the peared to the country of the peared to be a superior of the peared to be supply, the people say that they must have been supply, the people say that they must have been supply, the people say that they must have been supply, the people say that they must have

9836. The Crameax.—Is the cow your own property?

No. It belongs to a policeman, as a matter of fact.
1887. It is on free pesture?—No. What I mean to my is, I send my own patients to get milk as I have say is, I send my own patients to get must no a rare described; they supply their own sherfines "billy," and the milk is milled directly into it and byought sem from the own. The great flows both shorts the general engaly is that you do not know the conditions under which milk no positions. If the people searned out the which milk is produced. If the proper earnes we are system of band-maid milking in the meadow it is sumple and effections. The cow is tested, and it milled in the master under the most champ condifficus, and the sulk consensed within a few hours afterwards, and your broadle is over. The first thing we teach the mothers is that they must breast-feel their belies. We found that a mostaken belief pewilled among the mothers that he milk I have described as better than human milk for their children.

and you can understand what horrible stuff at much)

f ocurse, we had to combat that idea, 1808. Prof. Marran,—The mothers 1800. Miss McNerra. - It is not so much an excess as that they think it is a better thing?... Very likely. ORGO. Mr. CAMPREZ. - You did not beld un what with the modical report on the obliders that got that milk. You told us that promous to your enterior course operation there had been a very high death-rate due operation there had been a very high death-rate due. That is different to survey m a few words. remember that it is not simply a question of comparing our death-cate with the death-rate of redinary children in one year, because our milk is explicit primarily to size shiften, and our children are really invalid: It is not, therefore, fur to compare our death sub- with the peneral death-rate of the community, where there are healthy children. It was worked out in Goller's astribute thee in ten years over 2,000 infants died-

9865. That is with mildy children !- You.

### Dr. W. Armsson Wood.—28th February, 1912, a bestle it in startlised bottlen; to

seed. Yes see solding up a very high stardned, which you wonk to be instituted by the collineary milk repplaces. Now, if we sai up need a shacked in this requirest, which understood the control, it would understood the proper of said of the collinear which was not to go a subject to go a subject to go a way to be a subject to go a way to be a subject to go into held stardned by your copusation about word cleaners a furthy reliable milk copyly—here's go into held stardneds if you have a distance of long, it properly consistent of an unifie at all, because

Diet's possession in particular of the milk as all, because although milk and meany are pleasible in Assistant was contrastly not jetted in the particular of the milk and meany are pleasible in Assistant was contrastly not jetted in the Tenans of the particular of the department, but of total stationness—I can assistant Mr. Campbell's question, but it has be assured as meaned popular.

mild stope the state sentences for constraints of the state of the sta

one ways by whose shift extent to construints we specify in the besters that causes the frontly-like a probability in contribution.

1980. In this besters that causes the frontly in the state of the large shifter on 1 1974. We have been tooling children on 1 1974. We have been tooling children on 1 1974. We have been the form the form-LII you cally know the household of different binds.

1980. But will, take your milks with from 5,600 to

96%, pay still, male you'r made weak meet speed in 1600 besides, been many of demm are the 200 server of 200

would iffect the purpose in some hermatus of the work, and the state of the state of the state of the state and the state of the state of the state of the real secondary of the state of the state of the real secondary of the state of the state of the picked up in the soon, there is in those that the ender regulations would require to be called one. To see proper the state of the state of the state of the over here.—Will, first of all, you beaw that the contemporary of the state o

9873. I am not returning to your special milk expaly. I am dealing with the ordinary milk. You took up this makens because the cedimary milk contained these bestern?—You. 9874. And what I wanted to get at wee, where was the contemnation of the cedimary milk?—There see

9874. And what I wated to get at way, where was the contemnation of the confirmy rolls.—There we a busined and one different ways—at might seem from the own, of the other, or it might be fixed conforming. millers, or from his clutter, by from done short the phone, or from his clutter, or from done short the phone, or from his clutter, or from done short the phone, or from his clutter, or from done short the fixed of the confirmed of the confirmed of clutter tensist, or from My conventions until it gets to have been a proper of the contemnation of the in

nouse, where is in pressury consummated more than in any other placeman.—That is the communication (66% The Crameal were leading up to. Mr. Willess.—No one section of the milk question can be besided by shall?—No. If you are thanking of supplying it cars to ministry two most take every per-

ten to treates by ment?—At. If you are thinking of supplying it can be infinite too most lake every precaution in production, or podeument. 850. Mr. Caterant.—But if, having taken your precautions there, the continuation comes as offerwards.— —We day to have it clean throughout—to take it clear.

from the cover to bette it in shorthed bottles; to top it weld not then part it must be above something. The opportunity of the part is not be above something. OPP, I quite follow that—II I was sere that the contamination comes after the mile first the form I would than economistic may assept so the rilk in the contamination comes after the complex of the rilk in the contamination of the rilk post largers with a seven with apply it is the rilk post largers with a seven with apply it is

quantized for on, because indocumenty with comparison with your happens with two-cars milt supply is this cause of a great deal of trouble anomapst the children, and we have got to fixen it as well as we caus; and we have a poor population to deal with, that you have not?—That is a difficulty,

9979. And you can face the question of doubling the panes of milk with a fight beard compared with safe.

"That is a difficulty, you can face the question of doubling the spread of milk with a light heart conquered with usb-gates of milk with a light heart we found it.

1980, You can gat people to take 118. We had the greatest difficulty starting for ching, and only for Liedy Talbot we would mure have done it. I feel suce that we have been well repeal for this trouble we have been well repeal for this trouble we have

taken. See Maryaw.—What is the object of the battershipped examination of the milks.—To see wide what objects properly the conflict and the milks.—To see with the object of the milks.—To see with the object of the milks with the set of the milks with the mil

case where the several respective properties and certain up berectedly, and acut in the collective way to New York and back again, it never week has 6888. When do the lactic and besteric some from 7—Probably from the dask and diet. A good brailing convenient of the correction of the properties of the conclidence, with the serverentiage class, as you would clean a place before a manifest overestion, and milities with startified hands.

a surgical operation, and milled with sterfined hands, would shave seneously my bacterial reteam. 1988. Mr. Wilmon, —Has that ever born done?—Yes. 1988. In the case of commercial milk?—No, but in the laboratory. 1986. Frof. Merran, —What hasterin are looked for in the bacteriological communica?—Well, I understend them are three chases—albell, betch and, and

m the basterological communication?—Well, I understend there are three absence—abell, bette acid, and the liquiding basteris.

1888, What do we understand by the liquiding betterns?—Those are the cost probably that getterly

46 (486). With reseal to thin mile supplied by Haps, do you take tail?—Xes. 46 (500). During this sex months of the summors?—Xes, 4860. During this sex months of the summors?—Xes, 4860. During this sex months of the summors of the

one to determine the parameter that potential between the solvent to determent the received manager year retest feets—

determ—

determ—

get and you get not of the renderm—Year.

get 1990. And you get not of the renderm—Year.

get 1990. Can you tell use where the tobercolonis cause that there were may of the old cone that did roots. We retest every part to be some

and there are no service one too recognized carried on the collection of the collect

being a bentirological examination made of the canbeing a bentirological examination made of the canbeing a bentirological examination made of the canbeing a bentirological examination of the canperformed examination of the cantensor of the can
Eight better week, right hour play,

"Eight better week, right hour play,

(600. Mr. Campanta.—You have got a minimum wage?—Too. There are a few weeking men who are old who take less thus So. a day. Some old mea that are not able to weak very well no semetimes allow of

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Dr. W Aramaco Woop. 28th February, 1942, to work below the standard ware by the Trades Hall,

from whom they have to get permission to work below the standard fixed.

9900. Peof. Mirraw....The people who would have all 9900. Peof. Marrax.—The people who would have if a weak would have their milk supply grain?—It al-depends on the family. There is a certain amount o poverty in Malbaume. There are cases where the worksagmen are not allowed to work, and they exceed earn the maximum wars. Upder our Labour Laws man are not allowed to work under the standard ware. Trades Hall. There might be a mon in a family who neight be ill, or not able to earn the minimum wage

and they are out of work, and they have to be supplied free. There is a certain amount of powerty amought people of that class, but the belowing people brought on Memoryes.

9901. Ser Stewart Woodspore.—How is the milk decided to 60 that some set ve., seek the happened by the happened by the we could be deliver the mile from house to bose, and also give the services of a nume to show how to use it, so that It is delivered packed in too in bottles, and the bottles are sould own with a cod beaung the date and the time of

milking. 9902. Are they pint hottles?-Pint and quart hottles 9933. In this milk a medium for the child, or for the house supply?- It is medicine for the infents. It it not armosed to be taken by the other members of 9904. How is the other milk in Melbourne delivered, as a rule?—As a rule, in bulk, with the exception of this posteuring ecopany that delivers in battles. 2015. And send it out in carie —Tes, and deliver it

60.
500. Are there shops and depote in the streets for the general supply?—No, there are no depote in the streets. It all comes directly down from the farms into the platform of the railway station. It is put into corts and token round from house to house at parti-

1997. Is this Telbot milk delivered twice a day?-No, only once in twenty-four hours, 6008. It is the two milkings of the cow?--Yes 1903. You spake of twenty scree and ninety-eight

5939. Would not that seem a small quantity of land for such a large number of cove?—The core are not fed on the great, but on the folder that is produced on the ground, and the grant construction, the poor 1921. For the and general construction, the poor people are dependent on the ordinary milks that is each through the streats?—Yes, and it very often goes 2012. I suppose the trunce takes care that the special milk is given to the infants?—Yes,

9918 Mr. Caurenau.—The ise is bought from a company who make iso?—Yes. 9914. Sir Synway Woodencan.-In the los taken round in a milk-cart, or is there a special ice cart? It is taken round in the special mile earl, which is

covered in and taken the ice. A hinch of ice is delivered in each house to keep the nells for twenty, four hours. This ice costs a premy a day delivered.

2015. Mass McNantz,-The milk word for inference necessarily pure milk than that used for the ordinary

1916. You do not mean that all dairy hards should see the same appreciation as in the case of you have the same supervision as in the case of your supply?-No, we do not think that it is shouldly accounty. Very great work is being done by the Arregitural Department in the way of senerally mproving the forms and the selft supply.

9917, You would recommend that there should be special milk obtainable for the food of infants and young obligen?—Yea, occurring.

18. A special will supply for them, because they 9918. A

are specially hable to be postoned by had milk or by largerides in milk?—Yes 9019. Milk that has gone soor would upon the infapts?-Yes. 9220. Without taking the stringent precuritions which

orner there.

921 I do not think so?—We are so thoosely) indued with the necessity of a pure wilk supply and high standard that we eather look down on a law.

9922. There are lots of places where children at fed where such personations could not be taken—small villages, for instance. Do you think there would be any grievous injury to children if they were fed on pastourned mail?—I think it would be better thu a milk supuly you would not be able to oright. If a mine supply you would not so also to cereity. I do not think that pasternised milk would absolutely intere the child. I think that the borne posterrisation would be helder than the general post-orranties. 9923. That is perfectionfor certical and in small

own which was a consultential access. The temperature was kept up to 140 or 180 degrees for ten minutes. We did it in the case of milk that we 9904. You do not think that that milk would do a child may harm?-No.

9005. It was strongly assested by newspaper corre products that pasterned milk was excualingly had for children. It was actually stated by a modical man in Dublin to he polanous—I do not went to atset up for pasterned milk, but I works not any that. 9020. You said that you used rubbers-have yo Web. You said that you used rubbers—have you found any objection to the use of them?—dune antagroists to our scheme say that the rubbers give a teste to the milk, but I cannot say that it does to such its extent blast the behins object. I think it is better to get out of ming rathers if you can, and the Cordon Institute are rang metal discs, which I like hetter than the rubbers. The objection assumt the

rathers than any removes. The expression against rathers is not a very big objection, and they can be easily sterifined. What we used were the old more checky steriffice. Went we must were more one pro-discs, but we could not seal them, and we discussed The Charman,-Thank you very much, Dr. Wood, We feel our chligation to you is considerably enhanced by the very interesting evidence you have given. Wood,-Do not mention it. I have empred

Mr. E. A. Nears examined. 9927. The CHARMAN -You see Truffe Manager of the Great Southern and Western Railway Co., Mr.

myself very much.

NAR COMMISSION 1 reduction was, that some of the 1981 What I reduction was, that some of the 1981 What I reduced to the 1981 What I was the lay refuge at most the 1981 What I was the lay refuge at most the 1981 What I was the lay reduced to the 1981 What I was the 1 9928 And you have been good enough to furnish in considerable detail information showing the quantity of milk that is carried by your Company to various depots in the country?—I have given you the informa-9929. With regard to the Dublin milk tends. statement was made here at an early singe of the proceedings by a witness that some of the Company's

servants were supplied with refik over your system, I rather gathered, without the intersention of a purveyor. Do you happen to know if this is correct?—We have Do you impose so show it this is correct.—we have a distinguous for our employees at Inchisors, and it might be that they get up their milk direct. 9950. That is under your management?-You,

9933. In the trude to Landau developing over your system in the Smith-1—can statelly well as developing. It is, I think, a tredit that well not continue. I have get the figures have for the test half year of suffi and in the continue of the continue of the continue of it is toom instead of galleton in the report. 2005. Mr. OSmira.—Do you mean suffix seeds to compay was only 444 for the last half-year, in agreed 600 in the corresponding peaned of 1910.

comings was comp was for the mentioned milyver, in september 2007. Left recognition produced in 1900. The control of 2007. Left recognition was a concern enther than in increase.

2008. The Commons.—For which you are unable to security—We extend security for me. Of course, I may ray that force time to force was to still for cubes the produced in Ireland to places in England, and we could be a secured to the control of the course of

AND, It shows a presently, when those inquiries inneads that there is a proposed of a tasker-Yes.

5000 Is any nill; corried in the nummer ensurercens as any nill; corried in the nummer ensurercens are any nill; corried in the nummer ensureryear.

5001. The difficulty is on account of hosping it sweets — Yes.

500 and allowing the number with equal to the conditions atther wheth milk; was curried on the insision. Here was complished excelled your Corresion with ways. Here was complished excelled your Corresion with

rentice contributed with these three being the consession. He was confinite restated your Company with regard to the confinite restated your Company with regard to the confinite of the sull when it arrive at popule who have been installing the straffs, and form or the restated and the confinite terminal and the company of the confinite of the confinite company of the confinite of the confinite company of the confinite of the confinite of the strategies of galaxies along to to meet new to in the 1993s, Do you cannot can the night of opening on

9966, Do you must on the right of opining ass committing the earse to somerous whether they contain the quantity specified in the doublest—Xee, we obtain 1944. Do you take the infinistic on the sunde of the can as conveying to you the quantity of milk in the result. Yes.

wastly-Time who had be quested in this in one wastly-Time and wastle stronged to the can, what means would you adopt then to necessarile the questity of milk in the westly-The men brothing the milk would know by the look of the can what is

one this weens may by its soot of the east whish is ought to correlate.

9865, Pref. Mirrara.—Would at not he as said; so you to want the mile —It takes time and bending so wrigh it. It would not matter to a gillon or breil they were over the quantity declared. It is only if one so the typing to said a good using galliform more than

with the Chuntar—With regard to the locked ones, which do you do to secretain their contension—We will be used to you do to secretain their contension—We to the train. The vessel force are comparisonly from the last contension of the last contension of

ensity be inless cort.

9987. Mr. O'Brand.—The causa are not looked?—Not
us a rule.

9983. The Channess.—Malle in connectiones coursed in
open tenders.—Into Doblin, connecty ever. Semoclames
in the Lamereck distinct the millir going into Clorve's
factory in one trucke.

900. I have seen mill came in open frucks in this section of your hist.—Yes, but in this (Debim) park we disher you there into the guard's wan or covered was.

96th Prof. Merran.—Here you sary refragerating wase on your system?—We have shout twenty. 26th For eavrying milk and such products?—Thry are not such the milk. They were built for butter, but it is only in a very odd namure they are used.

The people will not pay the price of the toe.

99.2. The extra cost of carrage?—They are only
solid to pay for the our
99.33 Mr. O'Renns.—The scedar has to supply the
ice?—We supply it.

cover—we supply it.

9934. Mr. Whose—You obege him with the cost?

—You.

9935. Part. Mintrax.—What is the rate?—I cannot say, but it is exceeding very could.

9935. Could you say roughly what is would consecuted ones ten or fathers pulsear.—We herer use the varie for suffice.

butter, what do you think the extra ourrangs in a refrageraling van would be!—About 57, 9808. For any formation Butter generally loads four or five tons.

9000 That would be practically about 1/- a ton extent.—The suppose that the root would come to much about the same for mill?—We have never been saled

for refragementing water for corrying raftle, 96th, Mally would also more good, I exposen — Yes, 96th, Mally would also more good, I exposen — Yes, it would lake to more the because you can lead the buffer very high in the water good arms good with two forest. We, we could real HI behauff, you it would be to

convergence of the contract of

tons you don supply the refragerising ward—yes, panelly shout Linearest and that shakest.

964. In dairy contress where better-ensiting war widely failured—Ten. where better-ensiting war widely failured—Ten. the use of the retriggenting where the desired than increased—If he has been too the uses. In a weem animore three oil bethere were weren, and when the varies are ensemble used demand. Of course, some recent names have not been very weren, and then the varies are ensemble used.

"NOT. So for an your linewholes goes, no compositions have been made with regard to the ecolotions which have been made with the milk unply! has been received by the occupance as the different dypoch—I would not say on 1966. Which report to the condition on white the milk was received—I was not deshing with the question and was a state of universe to take the condition of the contrast of the condition of the condition of the contrast of the condition of the condition of the contrast of the condition of the cond

of shortage, which is not a matter of microst to maxfeed me age. I bead complaint of milt being carried in eyes trooks to Dublin, and we discontinued during it. Of course, if we were short of wine we might countrially have to to it, her I have head no cenplaints for three or four years. 3900, Do you impress on the person seeding the

amin and the decrease of in throng his devices of the cent in perfect colder, so that the attributions of deast would be added to the added to the second of the colder throng on we get them.

2793, Too do not think it is any part of your duty to admonth them as to the condition of the same?—No. 9791, 1994. Microse-You never refuse to assess 9791, 1994. Microse-You never refuse to assess

(6)17 — no. 977. Hr. O'Bann — All the rules are drawn up from the parts of view of the Company as a corner. — Precently 6073. You are not taking any respectfully for the condition of the mills.— No. 9076. All the precentions are to see that they do not not make the condition to the mills.— No.

1974. All the precontinue are to use that they do not send more than the quantity mentaged in the high. The rules are all for the protesten of the Company satirdy. 9975. And not for the protestion of the publicy.—That is no.

"forth. The Charmana"—Has any complaint here made of the stills being flavored by contiguely with other strong smelling substances had here not heard of any the strong smelling substances had here not heard of any the strong strong strong strong strong and have to carry thangs in the proach's was social other has to carry thangs in the proach's was social as shall be are loosy there upon a list as a possible, the had it easily supposed her had that will be an arrobe that it easily supposed her had that will be used as the that it carry supposed her had that will be used to be as a rateful as possible had it is not brought just to be see acred as possible had it is not brought just

of the Chemical and promune man is the tone recognition of the man and produced as a sheet of the principles of the control of

city "-Ms, we have in the Literatic distance a special red for fill counting is for membership proposes. Committee and the committee of the committee of the comdensities used to the committee of the committee of the proposes of the committee of the committee of the comtended of the committee of the committee of the comtended of the committee of the committee of the comtended of the committee of the committee of the comtended of the committee of the committee of the comtended of the committee of the committee of the comtended of the committee of the committee of the comtended of the committee of Mr. E. A. NEARS.—28th Fobrasry, 1912.
9982. Mr. O'BREEN.—In that a proprietory oreamory

SEE. Mr. UPDENTS.—It that a polysitrice, orname, 7988, The Canactast.—It has difference in the rote considerable or material between what is charged for the considerable or material between what is charged for the construction of the construction

of Lifetime and suppose a non-Yea, instead of objahpona-shiptemy for a sweeter gilbre non-1983, Frol. Marran-Thol is because there in a certain amount of nod compatition. There is a great deal of milk carled by each on bilinear-Ye-Ye-1985, Jr. O'Bure-—bad melons are used?—Ye-1986, Jr. Channes—Harve you ever coited in

1967, Mr. O'Burss.—And methors are used?—Yes, 1968. The Commun-Arthur you ever noticed the exterior of the costs being as an unchann condition when carrying milk to Dollin or Cord?—I have been with the Dollin or Cord?—I have been wetching, and I have been seen as retificated here I have been writching, and I have been seen as my the condition of the considerated for the conditional conditional conditions on the part of the considerate?—I have note.

notice as aboving exceptions orientation on the purpose of the consigner—I have not.

999. The cloths has are used for the purpose of preventing the sphashing have here reported to us as airing in an unclease condition. Did that ever attent your notice—Not. I have not noticed to. Of course, I think that the cloths should be used always.

690. Prof. Marriau.—To percent leakage—Y.wa, and

MMA. Free Survival — to perture transpersion, and their from getting in.

MMA. Do not the clother perturbation of their perturbation of their first perturbation. The perturbation of their first beat the full becomes one of their first perturbation of their first perturbation of their first perturbation of their perturbation of t

and note these security prevents are one research 2004. Miss MeMerna.—But if there was a suisible core roots not that one prevent the data grating art—With the kind of cover they are it is possible for constant of the constant of research and 1 have decident—In this school of research and 1 have decident—In this school of research and 1 have decident—In this school would be belowed the cover and the outside of the data would be decident to the velocity would reside the confidence of the website would reside the the school would reside the data.

In the sales.

Mr. of Steary.—I thought that the use of cloths was illegal. In my district people would be presented for washing been. I can not alread to send down talk to the recent of the content of

of your officers' duty to bother shout the public benkin?

—No.

2007. And if they was fifthy cloth on a one they

where he class it.

"Well-Biggording this Commission comes by the onedensies that it would be desirable to standardine milk
standardine and the commission comes by the onedensies that it would be desirable to standardine milk
standardine to the commission comes and—Total vision of milk which kind of one they pay the milk mink.
OBMO, What would happen if one one wast—Total vision of milk which kind of one they pay the milk mink,
they would only see the outside of the coa1000c. You have said you often go on the coard—wast
do not do that frequently. We have correst even diright
and to that frequently. We have correst even diright
and to that frequently we have correst seen diright
and the milk milk milk milk have been the based the promise.

ease, and that it what they have bold me—that they have not seen direly saff; 1986s Mr. O'Bura.—Do you know if inspectors of Food and Duus, or bolds inspectors, or any of these people come to the solution to rapped the milk they are

peoper come to the stations to mapest the milk there?...

1 do not know.

1002 As far as one can make out, I think from
the evidence, it does not appear to be anyone's bestmen
to instead milk coming in his beauty...I as a think in

the evidence, it does not appear to be amprove business to inspect milk coming in the term?—I do not think it is, except the owner's.

10035. Ness McNmax.—In there any other way you

DAMS, NESS RECORDAL—As there any comes very you could suppose for measuring the mile without spening the earn, which is not solutionary? Good not the verying of the cash is later to therefored, and then the weight of the mile?—We do not open a saw unless we have reason to finish that there is made in at than appears on the bill. It would not be a convenient.

so though the control of the control

It is often brought in 10st or the

The data is what Mr. O'There was to be a possibly to O'There. The data of the o'There was to be a possibly to O'There. The data data of the o'There was the confined to the o'There was the confined to the o'There was the o'

being made to patient?—I do not birds so. 10038, You can maint on other things being carrie to estable whileter which you are convinced are similar for instance, persposed or any other inflasmeds things?—Yes, but we have special powers in regard in \$15000, Mr. O'Burn.—You would have to obtan special power for the milk?—I daths so. 1 should saw so, too, but I do not see why we shall

I should say so, but I do not see they we said not get the sporal power and key the responsibility and the sporal power and key the responsibility and the cost of the tensist, Mr. Neels, to put a sporal milk wagger on 8—There is a special was on the beau that carry milk.

10013. And nothing else to correct on that—as is exclusively for milk?—Milk sometimes gees in the

exclusively for mill?—Mill semestence goes in the gand's van. 16012. Cen you put on a special milk van without very much extina coats—on all the trains it would not a great deal of mores. 16013. Me O'BRIES.—It is a matter of organisation. Your Company in perfectly willing to do anything for the trailing to long as other people will againse it?—

Total Company as periodicy writing is as any using its We will not use special varie as always to have a total 1601a. If people came to you to opposite a trade you would say, "we will consider whether we will give you special roles." Into the rullway company never, so he as I know in this country, subsides any never, so he as I know in this country, subsides any trade one comes forward with a preparation?—I so not think we would reduce the mult rates, they as

very list as it is.

10015. It always rests with someone clae but the railway company to initiate and diagnosis?—Yes, 10016. The Caumata,—Are three cretain trains by which the milk traffic in carried, say, to Delin and Cork, and is there a milk van on these tensis.—There are two turns which corry milk to Dublin, and for

1807 Dr. Mossisson—Sochung but milk in melel 1807 Dr. Mossisson—Sochung but milk in melel in these warsh—Thirl I cannel say, well though think on 10018. The Crumeav,—If the premaner of ineffecbearmfel it might be used to referre the congrellocellor, per variety—I would, 10019. But what—I would, the provision of a milk was stateded to take milk that will be suf-

of the gazed's want—In weald, 1001F. But the train starts with the provision of a mile was attached to take milk that will be sent by that train—Vex, and we take notk at the intermedials stations. 10000. There weald not be more stations that weald

have a load of mile to a waggest3—Three would be a 1000 of 1700 Mr. Wintson—I take it that the Irida subsets of entrung rolls by ruit and the English system are 10002 Wr. Wintson—I take to Jo I have that from a work of the second of the sec

right, I do not think that the same percentage would obtain here, because you see the milk is carried to

England in varm that are prestoally open. There are wide bare all the way up, and a great deal moor dost would get into these than into the covered was we use. 1992th And probably we might also claim that the average distance that milk is certified by rail is less in the country than for the large industrial bowns of the country of the milk confirmations due to the rail of the country of the milk confirmation on the the country occupation—I than the above been due in the way occupation—I than the above been due in the

20026 A writer characte?-Ye

accept A writer question—Yes, 2027. The Chargess,—And different scale?—Yes, 2028. Mr. Wilson—If there was reducated lying at the bottom of one of these charges or cons that are 10029. They would estimate the dark by what they saw on the top of the milk?—Yes.

10030. Would there be say difficulty in regard to the city terminus, and also large towns on the roote, taking in milk from the country by rail, in having a special place arranged in the station precesses where

Kingsbridge. at anymorough.

1966I, I am speaking of places where within the
station primises they pain the milk cost?—If you disi
that at Kangshridge I think it would do the milk harm.

platform.

10002. Do you suggest that the milk is not powed
out at all -Yes. 601 of an ——10.

\$6020. There is no tenselve of callk in the station pressures at all ——No.

16094. These there would be no need to make the previous I suggest?—No.

16066. Dat in places where they have a system of

ground the milk out in the states, would you not think that it would be reasonable for the rulway bills that it would be rescentible for the relevant congage to provide accountedbrain—I obtain that not. It is not past of the entrings. The units yearn-pays is only the accurate. Our content should frame when one have seried the milk to the destination, the content of the provide the provide of the content should be one providers, to their surprise of the content could be taken by the searchest provide of the could could be taken by the searchest private in contents of 10097, Weedel the popular to thus a norm on the states premises for the propose?—These would be so need to take it under the remain, it could be taken

out at once.

1008, Mr. Winson,—By the very fact of having no place free from dost and dost blowing about, the man sampling the milk would have to confarmingle of?—To

10039, Unless a place were provided?--Yes 20040, Prof. Merrin.-A room would be sufficient

annord.

10012 Mr. O'Barre,...The raffway company could get over opening the exac, if they had any doubt as to the quantity of nealt in the ventel, by weighing it. When the westel a not sealed arrons could do

practically when they iffeed with the milk KOIS Mr. Writen,—What would your chief electrice to to having all the milk sent in scaled const.—I would not have any objection to it. If that were done we would find some other way of anorthining

were some we would hap some other way of anoremining the quintility of the sufficiency opening the vessels. I would like it to be understood that we do not open many cars. We only open an occasional one that we believe to contain more milk than the sender has 20044. Mr. O'Bozer.-We have had letters on the subject, and from personal observation one has some ease sent by train with newspapers stuffed under the

the lide not properly laste and down, and, therefore, enyone could upon those life, and if there was anyone down at the station where the milk is sent from, and where the remain where the mast is sent fount, and where the vensus are lying about, they could tamper with the cure, and there would be also danger of contamination?—The chonce of aurone temperate with the vessels in a

contry station is remote, because the owners are born country station is remarks, because the corners are become to assent in the localing and sunderlying of the rule, and they watch the mild while it is there.

19945. The man taking the mild might sell at. It happens quate frequently that from the doiny farm of the cornarys the mild is sold along the relea, and some water put in to make up the quantity. The analysis of many obliges is another with the particular power passes of the particular water than the particular power. for the milk, which goes into his own pecket.

The Carrenax ... Is there not perer to word milk to

The CRIMBAST—Is there not power to wind milk to managemen in belond usurn?

The Director of the second of the seco

Neale, does most of the milk come from on your line?-About one hondred miles. 10048. I suppose if there was a countrat traffic from

the country to Dublin the unlivary would consider the desimbility of providing reinigerating vars—it is within desiminate of providing reinigensing vans—it is within the range of precised politice?—Ex. 1000. If they had orthour traffic they would consider the expediency of it?—Yes. equader the expediency of H7—140.

10030. I am sure you will admit that a material like wilk should be carefully looked ofter, and every accommodation made he sho company for its due dampatch?—

10939. As regards the churn is which the tallk comes wall. I think the Commission would look upon the that. If you think it well to keep the mile in locked came, the inflway company will not object to that. 198602. The Charman,—If additional expense had to

be undertaken by the reflect company or marying company, they would be within their right to chiral an increased price to ever the collay consequent on the altered service - Yes. the anarest service -- its.
16033. Because the public have a right to pay the
recognised cost in order to safeguard themselves t-- Yes-

their money.

19054. Prof. Marray,—The quietity of milk that is occuring into Dublin. Into not districted very resold desirg the last ten years—These has been a considerable flootsation, I think, if you look at my figures.

19055. Lasty Brysuna.—De the magnetion under the Food and Drugs Act attend at the ridway etations to take samples. Not to my knowledge. In reply to take samples?—Not to my knowledge. In reply to Prefessor Heitam's question, I may say that the variation in the quantity of milk test in to Dublin has been nonsitienable. In 1998 there were 472,000 has been comitteenble. In 1908 the

contour?-Dealing with the whole system, there is not nch variables. 16057. The Courseau -- In 1908 they aren't, dropped to half the number of guilees sent in 19115—That, I believe, arose from people in Dublin who kny milk, such as the Lumn Denn, from the country district

norshoune is different districts. 19868. Have you say idea of the number of porveyo

10099 I was carried to longe whether all the purroyen of milk was getting their supplies direct purroyen of milk was getting their supplies direct from the country, or whother they were getting the through an agent who was making a profit out of it as well?—I cannot tell you. 10000 If at would not cutail too much trouble, I would be giad if you could tell us un reference to Cork

and Doblin the number of conneguess who secrive 10061, Post, Marrays-You mentioned that you thought the fluctuation was due to the fact that the milk was bought in different districts?—Yes, the milk purchased in country distincts for Dubles. 10002. Sometimes they buy in districts on the Great

Mr. E. A. NEALE, 286A Fabraary, 2012.

10003. There is no setual deficiency of milk coming into Dublin?—No. In 1808 the figures were as I have given yes, 472,780 pullons, and in 1911, 708,845. Indeed, there has been a gradual increase from 1908. Mr O'Barns,-The evidence we had was that on the Great Southern it has fellen very much within the

st three or four years. the change in the farms?—A variety of avenue may account for it, such as the prices at a neighbouring creamery, 1004s. Mr. Witson,—Cruid we get a similar return

10000. The returns would suggest to us whether there um a present shortage?—I think you have alreedy saked that information from the other radway com-PORTOR.

The CRAIMMAN.—We have applied for that informs-

10087, Mr. O'Bages,--Can you tell me how meny 17-pillon cam go note a wagger F—I can let you know. 1008. The reason I sak is thri—do you suppose it is half a wagger F—Yor, I think so. 10079. Or more?-I should say it would be between three and four tens.
10070. You and that the difficulty of a double tier

would be the difficulty of reising the milk?—Yes. 10071. Do you think that the ordinary warron that comies six tone could be arranged with a double ter?— The milk would be too heavy to bendie. 1972. The wargen is only intended to beld a certain quantity, and if it has a double tier that would be more than it and curry?—Some yous are of different espectice. If we worked the traffic in two tiers, it would be dangerous to lead and unlead the milk.

1073. The Causeum.—The floor space of the ordinary waggen when the case are full would options? smount to the weight that the waggon is constructed to earry?—The vans see varying. Generally they would be 15 by 74 feet. I think that would take somewhere

short thirty exes.

10074. Mr Wessex.—If you came to the two-tree
waggen you would have to slope the Continental
system of echical cana?—We would have to make elterations. 10975. Mr. O'Barre,-I do not know that they have any odd store vans for energing milk in England?-I

do not think so, 10078, Prof. Murrau-What are the so-called milt year that you see in England?—They are made with 10077, Mr. O'Borry.-I think that if one had chilled

vers, to pay for the cost of these vers you would want to take them as full as you could, and the question is whether having a double her would overwanght the Mr. Wilson,—What would your criticism be on the Conkingstal system of sending the milk by train in cubesal count—I think the cristing our is good enough

100587 And you can adequately lead a wagger with them to your satisfection?---We are never satisfection?---

10070. Prof. METERN.-There is not much room lost in the packing of the engal-No 15080. Mr. O'Berry,-You tometimes have 17-gallon cans only carrying twelve gallone?—They are generally full. They are fully easily hardled for such a boove 10081. Do you get many complaints about the way

you hardis the empty came sent back?—We have had broken, that would pressionally corner, 16082, And I see that one of war I see that one of your provisions is that 10083. But there is no provision mode for the same being properly factored when the cans are returned empty - They are though, as a rule. BIGS4. Becouse, as a rule, they are rattling shout?-

fortened on in different ways.

1000. These were the empty cans going back?—Yes, MICON. These were the empty cans going these had been seen these frequently at the Limerick function with the like coty henging on.

Prof. METTAK.—Do the comp always go back empty?

19087. Mr. O'Baurs.—They do not have grains or wash in them?—There is generally a little wash looks wash in them where to go this back browers' follows the weight of an another to take heavy browers' grants -No. Our people would know the weight of an empty one, and if we found anything in them we would change for the second anything in them as empty one,

19769. I did not mean sending them as empty cars, but whether these is anything put into them?—No. 1980. Prof. Marran—We have beard of pig stuff heing sent back in cans?—That is not done.

you the rates.

\$1002. Here is an illuminating passage from
\$1002. Here is an illuminating passage from
efficient that was given before us.—"Do you find it
difficult to send goest by train?—"Yes, I have sent them
with a collar and takin. The relieve comprisons charges difficult to sens goest by train .- I.6, I here sens tame with a collar and chain. The relievely companies charge tramsdors rates .- £1 6s. 21, £1 fo. 4d., and £7s. E find its charged. They charge by weights, and byte have big heavy cruise "?- We do not not supply the have hig heavy cruies "?--We do now to-s was or the

weight.
1903. They are not sent with a collar and chem
like a dog?...I do not know. If a single goat is brought rate would be high. rate would be man.

10094. You would charge for a half waggon?—Not
gette half, but it would be high. We would have to
sund the waggon with the goal. If it is of any internal
to you, I will send you the setes by passager and

We would be glad to get them Ledy Eventure.-Do you consider that it would be hetter to send a goot the same way as you send a non, in a custe \*- Yes. 10096. The Charmen.—That would be the chespest

1907. Mr. Wilson,-It to not the manners and outcons of the animals that make you send them in crates?—No, but we can put them in a corner of the Winggoo. 11008, The Chargeau, Thunk you very much, Mr. cale. We are much obliged to you, and if you and Neale. We are much obliged to you, and if you as-us the figures we saled for see will be very grateful?—

Mr. Ww. J. Cocurrent, s.r., communed. 10000. The CHARMAN,-You see Chairmon of the Month Resol District Council?-You, siz. 10105. In fact it prevails over the enter district?-

19100. And you also have some interest in a lebour league?—Tes, a Labour Union. 19101. In there a wascoity of milk in that district among the labouring closs?—A green searcity. 10102. Do you mean a scereity from imbility to pre-oure, or want of money to buy?—From imbility to

procure.

19100. People having money to buy and sardous to
procure a supply of milk for their families, are unable
to get 197—Yes.

19104 Is the searcity widespread in your district, or

think I may say at does. 10106, Byan in the village?-Yes, I live in the 1010s, teven in the winager in. I are a several services and I would say that there were one hundred and fifty people in west of milk within a square main who cannot obtain male for love or money. Will dissert organization for the control of the co

10108. You think that the application of the Order has restricted the sale of mility—Yes, enormously re-\* See Appendix B, page 360. † See Appendix P, page 365.

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The cows are times, but the owners will not comply with the Order, owing to the expense that they would have to undergo.

10109. Farmers refuse to sell milk, simply because it would bring them under the previous of the Order? 10110. And it is your telled that the application of this Order has limited the supply of milk to the poorer

people?—Underdiedly, 10111. Do you think that the provisions of the Order are deside or severe on the cowherpers!—I do not think so. I think the importion and the eleminate were really accessory. ers ready accounty. 10112 And you think it was really a wise province. Yes, only for the control of the sale of milk were allowed to go on. Only for that, I would not say one word to the injectory visiting and noting that the

10113. But the stoppege of the sale of mile is the grievance?-Yes. 10144. You believe that that is directly transible to the application of the Order?—Yes, 10153. What provides does your Council make for

the carrying out of the Order—have you a veterinary importor!—Yes 10116. And have you a dairy inspector as wall?-1017, Does the vaterinary impactor report to the Council the condition in which he finds the cows?—

10118. And he only timperts those corrections owners there been registered as parrayars of mility—Quite so. 10129. Are there may feature in that district who have not registered—There is not a registered dairy. have not registered?—There to now within these rules where I are.
10700, That is Bellevskenn?—Yes, these is no re10700, That is Bellevskenn?—Yes, these is no re-

1012). That is Bellowstown?—Yes, there is no re-gistered duty mener than Dulcak. I know of two registered duries in Dulcak, sad I think one of them

regioned daries in Dubels, sod I think one of them supplies the only here. Dublint—Les, as in a significant the other template the 1922. Sende milk nice obtained the other copilies the rillage of Dubels or portfully supplies it. The contract of the other copilies are supplied to the trillage of Dubels or portfully supplies it. The copilies of the other copilies of the other copilies of milk were available, do you think it would be lengtly used as a food-rea. I take Dubelsween this convi-ience and the other copilies of the other copilies of the supplies of the other copilies of the other copilies of the going two makes with new ratil forms a food to be who was dying of obstumption

19723, And there was no means of goding mile conveniently?—No; the furners ere afreid to st mile owing to the Durine and Cowshods Order. 19724. Her see the inhabitants of the lebourer in the hundred and fifty people who are suffering from

In the hundred and fifty people who are suffering from a searcity of relik.

10125, Do they beep goats as a rule?—About Bell-trevitors, they keep e. bit of goats—aution or arwa-toen goats, and only for them the peop people would be in a very bed way for want of milt for their young children. It is not so good for young children, I understand, so over's mills. 10136. In mot those a great objection to the capply from goats in view of the fact that there is a great sourcely in the winter?—That is the time that there

the most kordship. 10197, I suppose the 10437, I suppose the goals that am kept are the ordinary common broad?—Yes, the ordinary common

10128. And they only milk for a very limited portion of the years—too; many pro-Contoher to March.

10129. What class of people do you believe are prerested from selling milk by reases of the Deleses Order-I mean are they formers who keep, say, six or night cows, or see you alluding only to people leep one or two cows?—There is one furner

10190, And he refused to sall milit?-Yes. 10131. It is because his oor byne is not in a propos condition?—He does not want the Inspector to visit him or radio any report about this way he keeps his cown. He expansion mile and feeds his others and

sells botter to people in the district 10122. Would you think it right to put the Order into operation squares a mon suffine batter as a product of rails, just as against the mus soling malk?—It would be harder on the poor. What I would say in that any person owning cross, the Inspectors should respect the armals and the shots and report. 10133. Mr. Winneys.—Whether it is butter or milk that is produced?-Yes.
10194. The Charman.-You have reseen to believe sent time?-I would my that they are not.
101M. And in all probability if the Inspector was to

10136. In it the capital expenditure that is involved, that prevents people from making the alterations?— The man who owns the truths corn lives on portion of a commons; be has no lease and he has no room to

nks special provides.
10137. He would not feel postified, having regard to

mass, me weak not teet puttien, naving regard to his teners, to carry out effections requiring a large expendition?—No. 10138, That is a great difficulty, no doubt, but apart altogather from this particular individual, what other were two or three places that the population around were two or arres passes that the population around could be emplored with rulls from, and they stopped salling it. These was a publican who kept four or five saling st. These was a publican who kept four or free owes, and there are poster people who keep two or there cows, and they all got in dread of being posse-cated and they give up saling the milk. 10130. The publican could affect to make the more are alternation!—He is much the same as the others,

\$0\$40. He did not think he had sufficient title to yeatify him as making the capital expenditure?-No.

10141. They seem to be well rooted at the soil?-101-22. Have you thought of any scheme whereby the courily might be overcome?—There are respectable

10163. Have any lands been divided in your district by the Estates Commissioners within recent years?-

10144. No estates have been sequend for exacted tenants or for any purpose whatever?—No.

10145. You suggest that lend should be required?—

10146, Where lands are in the hands of a Governbut how would you propose to deal with the problem State to provide a quantity of land that people 10167. A kind of common parturage?-If the land

mon who would be able to purchase a cow and have that beast respected by the retempty sungeon feer or five times a year, and to get the lead at not less than

10148. Mr. O'Barry.-Irish secon?-Statule. that menus you would be able to provide my and root coups for the cow, more especially as you would want her to milk in the winter time. If that land gold be organize for the cost, foot copiency as you well well as her to milk in the winter time. If that land could be compeliently taken and have the cown negative in-spectual, and supply the milk to the poor people who wanted it, and if a man objected to the sale of the will take the land free lime.

varies it, and it a man expended to the sale of the milk take the land freen hire. 10199, Would you pot that under the control of the Datable Countl'—Yes. 10130. The District Council or the County Council? —The District Council. one institut Council. 10451. What would you think of a scheme that would apower the District Council to caller into a confessi with a handholder in a district to supply a fixed quan-tity of milk and deliver it over a certain area, at the peres to be determined between the preson who was

supplying the milt and the District Council?—I would think well of it.

Mr. Ww. J. Corntrex. -- 18th February, 1912.

1982. Do you think that would be no cutter was 1912. Do you three that would be he cuter way to deal with the scattely than the way you suggest with regret to the acquailties of lend, because I am afraid that would involve legislation?—Yes; previded that he sold the milk at its volue. 10108. In what I have in my mind at the p time, the milk would be sold at a price fixed by the District Council, They would enter into a contract worth a trial, and there is an enmediate necessity for

10154. Do you think the District Councils on a whole 10155 You think it should be made compulsory on

of men generally that knew nothing about this want themselves, and I think it would be very hard to get themselves, and I think it would be very hard to get 10166. You do not think that they would have suffi-

I would not be take to speak for the most of every dutiest correction, but taken a six the akes of time led in notice up what they have said. I would be the said to the said the said the said the least and Dulled Order, and a great many other things that have to be done by the District Chernell. Dulled, I capt said cape, but don't was think this would be part as important as any of the other duties they are said to be the said to be the said to be the part of the said to be the said to be said to be the 10100. And the said to be said to be said to be the way in your particular district—Uniconbolly. 10100. And to known.—The the trainers employ

10161. Could they not get radic from these gratic-ment - They don't sell mult. 10162. The CHARMAN,-Would any of them set milk 10022. Whe Charmann—World any of them get mile as a preparate with their absourt—They weed want to be bound like. They don't, as a rob, get mile. Formetry they used, but they don't non. Formetry they used, but they don't non.

Week, a should say that done the laborarce get the world. I should say that done the laborarce get the world. I should say that they there are comparable to accord there, it had brought a told on employed better the absource and the conductant of the should be recorded.

the laborators and too common.

16056. Losiy Extrans.—Have you ever thought of
co-opositive governe, because I have that in some
places they have below a field and the laborators put
a cow so that field?—I think they do in Deleck, but 19355, Could not the inhouser keep his now for the

ray, three days after one ... get it for the year. 16066. I mean that you should farm a county of to take the matter up. That has would got eight or ten men to take it up who age 10167. Do you mean to say that the people who not the null are very southered?—You, work the nilk are very scattered?—Yes, 10108, Have you heard of the sabenc of Fother Borrs, of Oldenside?—Yes, I read has evidence beer.

ors, of Observice — ice, a read has conserve hour. 10109. It was not given very much in detail in the wearners, unfortunately. You say that none of the 10171. He would be a very good man to take up a scheme?—Yes. scheme?—Yes,
16172. Do you think that if the District Council
sustered into a contrast with a farmer to supply milk
in the district, that would be a way out of the difficulty?

10173. Dr. Mountap....There are a hundred and fifty cottagene?-They are not all cottagers.

16174. Lady Evenann.—Could not people gence on this commonage?—You; but there are three or four roads leading off it, and there is no way of keeping anything on it, and when the animals get on to be

19175. Mr. O'Batto.—You shou't tether the constru-No. The communacy is coly toougy lands. 19176. Dr. Hoomman—Hew many those cottages needly on invest of the handeled and fifty specific that you mentioned?—There are eight whose I live. 19177. There are pretty these begelter?—Xee. 19178. Could they not consider for the co-operation ground that Larly Evented specie about!—Thus weges

graining that Lany Evernor spoor about 1—Linear wages are only about 10th. a week, and by the times they pay 1c, 3d, for the cottage they have not a lot to appaie; and they would sell you that they have as much head as they are able to pay for. Lody Evenum.-Have they got an acre of

for the general of the goats.

10 the general of the goats.

10 101. Lady Evenano.—Don't you think that if there

to the outlagers.

19185. We have had evidence that these goals will
milk for ten receibs of the year?—They would be a
great advantage to the people.

10184, Dr. Mecanza—They keep goals in the 10185, And they supply the milk to the young 18086. So they are not shouldedy hereit of malk?— In the winter time of the year, that's all.

interest in the parasital residence, for interface - proceeding of October until commany gate March.

10188. Do they use condensed milk at that time?—I dealth think they know what condensed milk is.

10189. What is the relativity gives to eithires?—I 10190, And do they give that to the young shildren? 16191. Are they diskly in approxime?—They are for

to the want of milk,

to the wait or max.

16192. Is there much consumption among them?—
I have been told of a case—it is a registered damy, and there is a person in consumption in the bases said mult is sold out of it. 16898. Is there consumption amongst the children? There is a min dying breads whose I live.

That is only two cares in a bag district.

10194-5, Ludy Byranuss—You have no meals for select children?—No, only what lat of bread thry

bring with them. 10106. Do you think there is much stowed ten used in your district?-Yes 10297. Do the ciribian get stimbout?-Yes, and 10198. Do they get ultraheat or only baker's head?— Yes, baker's beaud, because they centest obtain hatter-mile to make bread at home.

16199, Mr. Wilsee,—I would like to go a little fusher into this quotifies that Lady Everand has mixed short the possibility of golding the men thanselves short the possibility of golding the men themselves to bend together. Fr Berry's subrue is only applicable where the land is broken up. There is nothing in the world to prevent an association of laborance most or small faguers banding themselves renting a field in common. On the other together and renting a field in common. On the other haza, we suggestion you need a quantit that you that they would be very seattered. That suggests that there are two supernic assumes to the problem of milk in your arms— one is that, in the matthreed shrinks, they should be toduced to take up the improved clara of goat; that when they are close together they should that when they are come togenace they assume thermelves into a cooperative meanty to rest a field?— It would be a very good them, and I have no hesitation in caying that people weeds be find to go a mile of general for rails. The diffractly would be that the

eight or min men might not be able to pay the renk.

10000. Dadn't you tell us at the beginning that they were able and willing to bey milt?—Yes, as far as a

319 Mr. Wm. J. Country ..... 28th Petruary, 1912. Wrises.-What shout the landlerds?

halfprayworth and a parayworth is constant, and often they would be without it if the wages thit not The wages are low in the district. 10201. So that the quantity of male that they would he esting to buy would be vary small?—It would, 1929. Therefore the null: of one cow would be sufficient for quite a simples of prophes.—You, it would spired, that is if the person sold the nulls, but if a veryon has a cow and cause n call, he will not have much wilk to sell. MORE. The problem is that the people are so poor that they only have a very small quantity; would that not tooks it will essent for them to put into notion thus

are only ship to buy very little malk, the society that are carry offsts to may very fiftle malls, the society that they would form of eight or man men, instead of having several core, one oy two cone nould be

they would be paying it bewords the price of that coul-10205 Would that not be the same thing in the long 1022.—You would want only a small posters of land for one cow, and the fields are large on the

ing from poundies, said he could take no lood;

as he are faced has stromesh would carm, and the doorn ordered milk, and the prevant could not get scale be buyer and it was the change of a budy that loop the child made word he get strong.

The form could not Politic Gillack approach these eleven mentals people and they made voted them to give print? I on some Pathan Gillack would be only too

1008. Mr. D'Brine.—What soit of paice would thry charge for the hand.—What so tof paice would thry 10000. Lody Hyggann,-The usual rent is 48 for the

art mostle.
Mr. O'Baux --We have had estimate that in the winter it use 25 10s.

19810, Ledy Evenum.—That is the reat should Deleck, 34; and if these people have then HOROL Lasty SPURMED.—There is the real annual Defects, 841 and if those people have their over justs that could peol their hay and field their over justs have could peol their bay and field their over 11 was to pay the proces of the civen months' system it would be hard to mike the rest. If the people were bound to

for there.

to them.
10211. Mr. Winson—Le year paret the old story of fixing of tenners.—Yes,
10273. Mr. O'Barres,—They cought get the grazing in then cow one year and not be certain of getting in then cow one year and not be certain of getting it the next year?—Quite so. 10213. The Coutena,—The graniers are sensity non-

NY, WILSON, What make the abstract of carcino-fine Chriman, There are a variety of carcino-stances that affect the overraday, as well as the tenne, of the land, and there would be an enormous confines that are going out - I am is quite at. Series of it might he s game pleasure, and you would be basilly allered to put in your foot on it to milk a corn. 1001c. Mr. O'Barra. - The Parish Priest would probwill know shout the teneer, and would perfect to say "such a field to say "such a field to say the sak a read the same and the same and the letters we can get that field."

The CRAMMAY—The resea I desput of it is because this obergue this has been in the district for a

10215. They are not amenable, horame they do not

five in the desiret, and they simply use the land for the pageses of fattening their cettle, and take no more interest in the people them if they have on a desert alread?—One grazine eccuss from the Co. Mayo to take 10016, Mr. Wilson.—Are the Bistrict Councillors

helders.

10227. And it is not a question of the recovery
offseting the supply?—No
The Causanya.—The recovery has no inflorme what ever on the supply.

1031R, Prof. Marran.—How long is it more this milk
question became arctic?—Since the Danies Order

me 1600 hous. 16019. That is about three years ago. Yea. 10690 Before that time there was no difficulty?-Before that time the man who owned ten cone would meetro tempence or a skilling a day for his mile, and was stopped the people see deprived of

10031. There is no objection to the man who lives in the Union cottages brooking goals?-There is. The or eighty arrow of community and the goals town all

16222. There is no clause in the agreement when they take these cottages feeludding them from keeping 1822. Be they don't been goats, in order to keep themselves out of trouble?—They are mither a quiet

and respectable people. They don't go in

and respectable people. They don't go is for "arthreas".

"arthreas" "arthreas" is the any other aspect of the people of the peo The Courseau,-We toke so interest in what you

The Commission then affeated till the following morning to Neurop-

## TWENTY-THIRD DAY .-- THURSDAY, 29TH FEBRUARY, 1912.

The Commissioners met at the Town Hall, Newey, at noon

Present:-P. J. O'Neill, Esq. (Chairman); Lady Everard; Miss Massaret McNeill, Sir STEWART WOODHOUSE, M.D.; GROBGE A. MOORREAD, Esq., FR.CS.1; ALBO. G. WILSON, Esq.; and J. S. Camprett, Esc., B.Sc.

S. W. STRANGE, Esq., Secretory.

Mr. H. J. McConvense, s.r., examined.

10225. The CHARMAN,-I understand, Mr. McConville, 18925. The CRAINMAY,—I understand, Mr. McConvilla, you are Chaurana of the Newry Urban Countill—Yea. Before giving ovidence I wash, so behalf of the Urban Countil, to exheld to you and the other members of the Commission n very hearty welcome on your wide to this nadout Bocough of Newry. I trust that the exforms of year proceedings will be of hearth you had in the county of the sections of the section when the control of hearth to that districts. I can only say when if you on mercurs to this district. I say only say that if you require anything to make you consistsable while here in the Urban Council promises, the officers will be at 10825. Thank you very much, Mr. McConville, for your land welcome. I think we shall be very comfortable in this Board-room. With round to the question into which we are inquiring, are there any special encounteracts connected with the calls supply of the town to which you would dearn to direct the attention very little knowledge of that at all.

of the Commission?-At far an I am oncomed. I have There are other wery little knowledge of toas at all. There are owner members of the Urban Council who will give you members of one creat content who was give you evidence on that point.

H697, Are you resident in Newsy?—Yes, all my life.

H698 To your knowledge, is there any difficulty in procuring a milk supply for the power classes, over procuring a milit surply for the porcer classes, even those who have the money to huy?—I think there is not much difficulty for those who have money to buy milk in large quantities, but I then't these would be a difficulty amongst the poer. 2022. We are making concerned with the interests 2022. We save making concerned with the interests 2022. We are making concerned with the interests the poer.—I've. My haveledge in that since the Dates and Efficiency of the came (also generates there 1030. When you speak of parveyors, do you alinds to people who retail milk in the town?—I mean people o keep dazzes in the town and retail milk. Have these people to where you have referred

have no some we have been a superschool of the coperate.

10222. The capital expendature which it would be necessary to make in order to carry out the provinces. 10933. Because they feel that they have no title to the expenditure?-Yes. the expenditure—wes.

10394 Has that led to a conseity of mills in the
leven?—I think the poor are affected, because they
ecold go to these small dailyseen if they had not given telling. 10235. The mile supply for Newry town, I take it, 10235. The mails supply for Neurry town, a man or, comes in from the country districts?—Most of it.
10235. And very little, if any, is produced in the town shold? Not nearly as much as was produced five

10237. And you believe that is the direct result of the application of the Order S-Yes, and also, of course, to the price of feeding stuffs. 10008. Why should that affect them more adversely in House, wery macons were among them more servel-way as the town shan in the country?—In the first place, the dailymore as the town bars to got great outside the town, and they have to pay at least 48 so now for greeing land, and country daines produce that own

10030. One okus of dairymen is able to produce his

own feeding stoffs and the town dairyman has to buy?

80240. Are there many dairy proprietors resident to 1094. Do you know anything about the condition under which milk is produced outside?—I do not 10040 Do you make my province for the respector of the dairies us the town under the Order?-Y 20145. Have you an inspector speciated?....We issue a dury improtor and a veterinary improtor.

10346. Will either of these come below the Ommission-Mr. Mark, the veterinary improtos, while
was appointed to give evidence, will be prevented too. attending owing to professional engagements clausher, but he has left has written gradence. 10245. Has Mr. Mark as annetant?—I do not that

10249. Have you get a manuary inspector?—Yes 10247. Probably be might be able to give us some intermeters?—He might.
10248 You do not know anything about the co-

town or in the country districts?-No.
1000. But you do believe that there is a margin

milk in the poorer districts of the town?-I do think so.

16000 Is it mainly consequent on inability to by
or difficulty to procure?—I think the difficulty is. or differently to procure Y--1 think the difficulty is, perhaps, in buryang.

10281. A monetary difficulty?—Yes. They have blue money and they buy in coold quantities, and the dairy people only send their costs reund one a day.

would they be in a position to buy a reasonable quantity of milk for their children?—It all depends on how they are paid.
10253, Would their wages he sufficient to warrant show in paying a reasonable price for a reasonable quantity of cells for their deficent—It all depends quantity of senk for their children?—at an equ on the amount of their wages, as I said. "I are lots of mothers working in the milk and oblidren are at home, and they are earning only is or ebildren are at home, and they are earning only to or 100 so 11 is, in this world. 110050 Hen that would be only one figure of immer in the family—when remotives of the family would also be seming!—Tee, in togete cases, but an atoms cases is conduct supposed for a different entirely. The world was you say modered man resident in Newsy when well goes you say modered man resident in Newsy and the said of the said of the said of the said of the part to the said of the said of the said of the said of the said to the said of the said of the said of the said of the said to the said of the said of the said of the said of the said to the said of the said of the said of the said of the said to the said of the said of the said of the said of the said to the said of the said of the said of the said of the said to the said of the said

will be able to fell you whether the children get a militared quantity of mult.

10256, Dr. Mosniman, What is the total price of militared Talink that 5 is three poors and three poors.

milk\*-u, wan-helipenny a quark. 19237, Thek is all the year round?--4. 19238, Are there people who cannot possibly get milk 19248, Are there people who cannot possibly get milk 19248, Are there yearly much tebesealous 19248, and 1924 in the district?—I cannot may; the dector will give

in the method, we will be supported by the menton of the method of the menton of the m husband be doing where the wife is engaged

the factory?—The women would be without; there are 10202. So that 10c., 11c., or the would be the whole income of a family 1.—Tes. Of course, there are cases where the husband would be a labourer on the gray;

Mr. H. J. McCosville, Jo.-22th February, 1912. 10004. The CRAIMEAN.—There is no operal circum-stance. Hr. McCoville, to which you with to direct the situation of the Commission?—No, etc. 10005. You are not brought into contact with people ranged in agriculture?—No.

outbreak of dresse from the milk supply?—I cannot We had typhoid some time ago, but we could not know

Miss MOLLIE BARCKOFF CERMINGL.

10066. The CHARMAN,—I understand, Miss Burerott, you are Secretary to the Commutes responsible for the control of the Jubilee nurse in this district?—Yes. 10267. And I take it that your Committee from time to time receive reports from their name with regard condition in which she finds the infante?-Yes. pages. Does the question of the milk supply ever over up to these reports?—Yes, frequently, because we gove out relief milk.

10265. Have the Council over had trouble from an

what it was doe to.

NEEDS. Have you any special scheme of distribution, or do you simply emble the sures to key milk in what-eest district the mecessity armou?—We have a or as yes unipy times for three to what have a very ever directive the meetady armen?—We have a Squartian Guild 10270, Done the nume key the milk at a central depat or from the distinct in which it is needed?—In the district in which it is needed.

10271. Does also present reports with regard to the
condition of the chaldren that come under her observa-

es, every week. 10272. In reference over made in these reports to the food on which these children are brought up?-There are worbs) reports.
10073. Has the nume had reason to think and believe that the children are not properly fed?—You.

10276. And that sharms of a milk diet is responsible

There are two names; they divide the town hetween on. 10276. The services of the nurses do not extend outsub- the town?-No, except in urgent cases.

10277. In the courtly of milk due to the fact that to hard—I think both earner or became there is a difficulty to hard—I think both earner combined. No doubt there is a scarrity, and, of course, we have very poor cases, where we find that the poor caused afford to third, where we may then the poor custom affect to key milk, and if others word to key really good malk 21 m difficults to got it in cortain districts in the town. 19873. Do you take any special precessions with regard to the milk you key?—So. 19879. You simply powers the best you can find

in the dastruct in which the name is engaged?-Yes. in the carriers in which the name is expanded.—Yes, 10200. Here you any special incovering. Miles Barcott, which would enable you to take the causes which led up to the causes. We sell cold survey to the cause which led up to the causes. The price of freding stuffs and the wages have affected the price of milk, red at the wages have affected the price of milk, red we find a great difficulty about the price of milk, and we find a great difficulty about the man attending the 1988. Too think this has restricted the keeping of

19480. In that a growing cuit?-I think so, so far as my knowledge from selling milk goes, because the decrease is more than we can supply. 10305 Is the milk that you re interested in raised outside the town or inside?—Our happe is in the Borough, end our cown are fad in the reed district.

10284. The milk is distributed through the town case 10385, Are there many isodowners engaged in sending to milk to Newsyn...That I cannot answer. 10286. Is there a competition amongst those who are

vending, and is there a reduction in the price con vending, and is there a requestion in the price con-sequence on the competition?—I do not think there in a great amount of competition, and I have not known anything about the price of milk to lead one to suppose meet Has the price varied in recent years?-No, it

Hoth this the perc varied is recent years — no, it is reconciled from an of threepens in the writer, except for the poor, and stay pay up to forepens a quark because they to in small quantities of the small steps. They are wealing in the mill, and they have to how from small shoukeepers. They are engaged as the suffic when the curts go round, 10200. The smell shopkeepers buy abolessic from the milk producers?—You.

10399. Have you any reason to think that the opera-tion of the Datrite and Cowshols Order has in any way limited the number of people suggest as the numberty. It have been that is so, but I have not come seroes it. one of the causes advanced, that mflorneed people who kept cover for the purpose of supplying the town to go out of the trede?—Xes. 2020. Are the provisions of the Order printer. enforced in the district by the officers appointed by the Urban Council?—If they find any flagrant breach

10292. Have any prosecutions been undertaken?-I have not sufficient knowledge to say that 1920. And in the industry in which you are engaged you have no reason to complete of the enforcement of the provisions of the Order-No. ner netwinson or an Octor--No.

1699, You do not blink they are too drawlin?-No.
1693 And you believe that it would be in the
neterous of the commoner of mile that the providers
of the Outer should be applied universally?--I, do. 10296. In order to meany purity and cleanlinese in

10297. Has any outbreak of disease been traced to put it down accurately to the milk. 19299. The max was suspensive—nex. 192299. What pressurious were taken by the Public Health Authority to ascertain whether or not the suspenses was correct?—The plane was constitued. 19800. The people handling the milk were causained?

-Yes. 19803. And nothing suspicious appearedly was dis-overed in the examination?—No. 19803, Mass McNema.—Who carried out the impec-10800. Miss HONELL.—Who certed our use impo-tur?—There was a local impection, and the medical officer of the Local Government Board come down 1600. Lady Evinsum.—Was the Widel test applica? 1 connot sell you.

1604. The Comment.—Do you think that the health

in construct.

Any vages are now vage as the first force of the first air children, by their percents for domestic use?-From a penaryworth to a piot a day. They get se greek as they can for a permy.

1007. Obviously the children would only have homeopathic doses of milk with a supply of that sharaster?-Quite so, 1008. Do you think there is a tendency towards a steady dealine of the copply generally?—You, as for an can make our sacce as 10000. Have you thought of my scheme whereby it world be pessible to improve the condition of thrage that exists?-In some way or other it would be well to help out the milk vendorn, because I do not think

they one make a profitable living out of the leads. It then the liceal surfacety output in some way to what the moster up. I brink there is a certain quantity of suffix produced in the town, but I do not thunk it in abbayeshee the best, because I have been brought up to understand that this hence greater soft the quality of the male weakth be poor, end it would be of auditions of the male weakth be poor, end it would be of auditions will be a sufficient to the contract of the contract of the contract of the male weakth by the contract of the contract o If the municipanty would in some way supply money mult to help the poor quelity of the milk. 10320 You would suggest that the municipality should DBMs Now would suggest that the manipularity should be arbivel; or moreogon district, or m what way would you suppost that they should help?—I should find it they you can be able to be able to the should be able to the should be not be should be not the should be not the suppost to the substitute, who should do to the unite recorder sufficient Leony or other sole mids to improve the quality of it, that that would be a good thing. This would not good great you for the suppost the suppost that the sould be a good thing. This would not great the sign of the suppost the suppost that the sould be a good thing. This would not great the suppost the supp be a good shing. The

Miss Menner Bancaser. -- 20th February, 1912.

10111. You are rather inclined to apprehend that it

would be difficult to prefuse on some of the posterior account for corn a sufficial an object report of the control of the control of the control of 100 March 100 Mar

divine of local select. If the health of this value is of vest impresence, I think he sunsisipally should be proposed to speed a certain sectoral of more including the proposed to speed a certain sectoral of more judicious experition—to develo come parties of the money raised lessiby to improve said necessar the supply 1000L. It is the short of the facel sectionity to make province the statistics members of the community with the province the statistics members of the community to make province the statistics members of the community.

go to leasant the expectations that to would be accounty of the leasant the expectation of the leasant to the expectation of the leasant to the leasant leasan

pocker por lorar of the form recall turrily keep the realt they petry in conditions that words are it from contamination N—There are serveral through that regist are, if the units in so dirrind the popular that part part of the rilk! would be poor. 2019. The rilk! we also exposed to contamination?— Yes.

1930. And anyst under economics this are opposes to the principles of hypicies—New John sulment, such as the principles of the principles of the second of the smatter in which they always their mixture of the smatter in which they always their mixture of the smatter in which they always their mixture of the second of the smatter in which they are the small get that from the magnetic responsibility. We shall get that from the magnetic responsibility of the small get the smal

10055. Do you give free milk to the believe?—Les, 10055. And to be det take any precondition, or the name does not take any precondition, to see that it is absolutely part milk?—Seebing more then that the harmon where it operate from . 10087. Does all have tooks so bed that it has been a see that the se

Hall the gelts it wherever she can.

1828. In coordensed mult used?—I do not know,
1829. Or mulk powder?—Not so far as I know,
1829. You find that the people attend to what the
rease tells them?

nesso (till them?—You.

16038. Is who ship to instruct the people here they ought to keep their food in order to await contains-

M003 She dose that?—Yes; I think she looks into all flash. 10080, You mad a great many children suffered free related to Text. 10084. To what do you attribute thei?—To the had

1800s. To want the you saturable senter—to bee one freed shay get, that the mothers may not really be very strong the caselves, and the children do not get the supply of ralls they should.

1600s. Do the mothers were their children as a rule?

16026. Those that feed on the bottles, do they use the long tode 5.—We are feature-ting them against thet. 10887, What is the rettel proce of milk in Newryt-We retail at twopcase halfpensy a quart in the obscurer and farconome a quest in the water. MOSS The ORUMBAN.—Have yet as kupp a quantity available in the united so in the sourcest.—We do to be have.

No state of the sourcest of the sourcest.—We will be the control of the contr

that there is not, so for at I have been able to pulse the fooding line amount. We also when extenses are surprised in the radial - Series of them may be, as as enabled in the radial - Series of them may be, I will be the results of the radial to the radial of the line of the radial of the radial of the radial of the I will be the results devote sufferent time of the I will be the results devote sufferent time of the I will be the results devote sufferent time of the I will be the results of the radial of the radial of the radial to the radial of the radial of the radial of the Value of a similar entripsis in Carlon, when yet was a seasoff, when implained not cause of these ways as passed, for implained to cause of the radial ways as passed, when implained to cause of the radial of the Value of the radial of the radial of the radial of the value of the radial of the radia

More at Spirite on very large per periodical of the membry of hill amongst the poor periodical of the membry of hill amongst the poor periodical of the membry of hill amongst the poor periodical of the membry of hill amongst the periodical amongst the

10004. Jon and 101 supposing that water has been proposition to all the differently of greing failures filtering Proposition to the annual filtering to the control of the control of the cost proposition of concern you have forced in the cost proposition of concern you have forced in the cost proposition of concern you have forced in 10004. Does may runtil come into Xeuxy from the 10004. Does not runtil come into Xeuxy from the 10004. Does not runtil come in Whiteenon.

10005. Mr. Chierratza—Are there are presented in the district of all Ul-Thrue is control will Whiteenon.

the distract of all X—Three is one at 10 irreduces in 1000 K. How for it that every X—About too miles away.

1000 T. Too for is send separated multi-hree—Ker.

1000 R. Do you think that there are persons believe here and Wansonson who mad in milk to Kennyy—I.

should their so, the second of the second of

Whitecomes — Yrs.

16026. All the way — Thad I cannot really to;

16026. All the way — Thad I cannot really to;

16026. All the way — Thad I cannot really to the search free observed the search for the search for it then a favory if these was a better denant of for it then a 1504. Tea keep your own covers— Yes.

1504. Yes keep your own covers— Yes.

1504. Yes keep your own covers— Yes.

1505. What in you feet them on as thus time of the way — Cooker way, meal, than our rook.— I wan the present the yes and you way to be the yes.

1504. Yes a first of the yes.

1505. Yes a first of the yes.

they are middle at the control type. I do not the first the second type. I do not the in a belief type than the ordinary country type.

10000. Do you needs interfraction.

10000. Do you need interfraction.

10000. I do you need interfraction.

100000. I do you need interfraction.

10000. I do you need interfraction.

100000. I do you need interfraction.

10000. I do you need interfrac

yields less fut than in munity unformed to be see sweepe quality\*—Test we keep Jerseys as well to make up the quality.

10800 Do you find it necessary to keep Jerseys\*— Yes.

Ice.

1070 Hen long have you kept Jesseys?...I should now shoul fear years.

1671. And before that its nuffix was extremely por?

-B was.

1672. Did you ever tent it?...I should thirth we did test it. We must have. It just eners up to the

test in. We must have. It just come of to the sturched, but no more. 25072. In it a popular idea that the milk posizoid in Newry is poors—Some as poor and some is not

Man Manne Bancacov, -- 29th February, 1912.

p0974. In it from what you heard that you say it is pooe?—My own knowledge of the milk in this what was bought was poor. We bought milk before we kept was fought was poet. We couply sain mine or key our own own.

1817. Piccor than when you got the Freneys.—Ten.

1867. Suppose that you take the cellinary cown, and take them to any other distant, would thay not give poor milk she as companed with the Jerseys.—Yes,

compared with the Jerseys they would.

10077. You have never heard of any prosecutions in Newry for milk being poor-for selling milk definent in inft-I do not think so.

16078. And you have an officer taking samples orthogolds. The presence so. normalist I presum so. 1079, Mr. Witson. You are not in the Town Council yourself?-No. My Campuna,-Are you interested in govie?

Mo. We have only hearmy evidence short goals.
10381, Have you may experience of them at all?— Not personally.

10082. Do the poor people keep them as a rule?-

16080. But you are not able of your own knowledge to say whether they are good millburg--No. 10384. Or good value?-No. 10381. Sie Serwart Woodsserist. Do you think that

the use of milk bee diminished in Newy within the last few years.—I was trying to find out about the last few years.—I was trying to find out about that, but occid not get any definite figures about it. 10386. It mucht be much the same as it was proviously?- The number of people have declined who supplied the milk, and therefore one would suppose that there must be a restriction somewhere. impressing on the year the dumphility of getting good milk?—Yea. They are trans-

of other things.

10088. What other though?-- Ton and porter, and things of that sort.
1000. Miss McNenia.—In your name's report, has 16000. Min. McNima.—Be your name's report, but the green you meetern of animore declarate smoothing bigston.—There is a good drait.

10017.—There is a good drait.

10017. Would you spread of the infants dist !—I out at tears that he meetably in great.

10017. Would you suppose of the long tube tookine being peakated by tow!—I have a sen recordly that owner outer my notice, where well also come outer my notice, where well also consider my notice, where well also considerated and the sense of the long tube boulder—I do not sense my notice my them should ask be. I think not only not my here we will also the first the sense only notice my them should ask be. I think not

country will soon get them to stop the long take

botto. 10993. Can you tell snything of the class of shop that sells milk to small quantities. Do they sell other things grocenes?-Yes, 1939), With regard to the asspection of the dairies,

from your own experience how often does that take place?—They have been to see our duty.

10016. About how often?—That I really do not 16806. The CHURNAN,-Hove you may difficult regard to those engaged in looking after the milk in your own premaics—ore they closely in their habits? Yee. The younger generation understand the precently too alenghness better than the alder generation.

1007. They had become accustomed to carriesa balate, and the difficulty wer to root these out?- You 10303. Yes think to rendered a controlled with the dainer!—Yes.

10303. Yes think it needs constant supervision from the nersen remognible for the measurement of the pince 16000. I am afraid your experience is not different from that of other people?-No.

## Mr. B. W. Hasar exemined.

10401. The CRAMMAN.—Are you a resident in the country or in the town of Newryt-Lin the country, at Jerringess. good dany cow?-You can hardly tell except by testing. The Jersey cow, for Instance, you will almost invariably get her to give rich nath. 19419. I sen rather dealing with the ordinary com-10002. How far in that from Newey?-About three English miles. 10433, Are you satercated in agriculture?—Yes, I 10404. And in the dairy industry?—Yes, I have been in it for the last sixteen years. Lou get people who will profess to know; but my in the feet the last sixteen years.

10000. Bo yen stol any sulft late Newryt—Yes.

10000. His the demod for milk in your experience increased on dimittible at the years—In my experience in the considerably decreased.

10000. The stock of the Newry Barriel District—Yes, in 10000.

10000. Here there were the considerable in t con get people who wan process to know; not the commence as their, unless you get your cown tested you cannot come to what you would enil any seet of

10407 Are yet as Nowey No. 2 District. 10408. Have they an impressor appointed to look after the provisions of the Delivies and Covathedu-ation than the contraction. the neighbouring

10400. Have they a retentary inspector?—Yes. 10400. Do the inspector vart you premises? the neighbouring http://propers.aumma.aumm Regularly,
10411. Have you say reason to complain of the
continues imposed by the Order?—Kone whatever.
We appendints thrus matter.
10412. You do not think they are unreasonable or

dresize, or impose too much expense on those supaged in the null trade?—No.

10413. What class of core do you keep sa your damy? The ordinary executored shorthern now. 10414. Is the land in your district of good quality?—

properly califorated. In reach to compant, portions it is properly califorated.

1043. Here you any difficulty in getting your mills up to the logh sheadard?—No.

1046. Do you gire your core artificial food when an general Too, with the comption of the month of 19437. And you find that you can keep the milk up to the standard by properly looking after your count— We find generally that you cannot hed quality into the ralls unless you have a peoper breed. No matter how rallk unless you have a proper breed. No master you feed a cow that gives a poor quality of milk cannot make her give quality; you must have it in to treed of the new tow.

10418. Is it a question of personal knowledge in the selection of the type of animal that is likely to be a

Hardward When regard to you tallow—do you keep your coan year to year out, or only nofit them for one person?—When we get a good one we stick to but she is difficult to procure \$21. Where do you buy your cows as a rule?—In zeighbouring hum—Poyntspass, Dandelli, and

1945. The unifing qualities have deteriorated.
What do you stitute that to5—The theory I hold is beening from bulls of a non-entiting steals. The great motority of the shorthorns are beef cattle. 10424. And you think that has proved detrimented to the milk production?-Yen. 

nor-beed shormorn our 19426. You do not think he to an animal than i progray remarkable for milking qualities?—He as 

Yea, it would must the case.

Mr. R. W. Happen,-29th Friences, 1912.

10490. Do you think too much attention has been given to the question of conformation and size and appearance, to the exclusion of the militing properties of such animals?—I believe it has, heaven during those last fifteen or sixteen years all the best built of to the Argentine, where they want an aurre-

produce leef. They do not one whether they will give some consistency of the control of the minds of the propie who keep previous breads of shortherns, and that they ignore he milling properties to a very great extent?—Undershortly. I know a great from 30 to 80 provides shorthern—and you credit and got firs out of lowesty that you credit outly good and got firs out of lowesty that you credit outly good and got first out of lowesty that you credit outly good actively. Since of the core would not now their own salves. In fact, I get them rayself, and I have fared thou made unachidowary and most competitive in

drily outlie.

15482 Do you keep milk records?—We do.

weigh our own! milk once a week.

10483, What do you call a reasonable standard

1988, what a 5 yet out a rescarce interest of milk yield in an ordinary oor for a paried of teeling mostles?—From 700 gallous up. I would not like to keep a cow that would give lose.

1988, You think a dairy own that would yield lose.

10084. You think a dairy ow that would you see ie not were predictable?—She is not. 10485. What is your beaviest vicki?—1,300 gallous. she give 1,200 pullons.

1000. Mr. Wilson.—Is she one of your own brooding? She is one that I purchased.

I cannot say. I purchased her in the ordinary way, and the gestleman I got her from did not know any-thing about her breed. 10438, Dr. Moosman,—She is a young cow?—She is about the Charman.—Hed you an idea that you -No, there was nothing in her appearance that would

lead you to believe that also would be such a profitable animal. I thought she would be a cow that would give one about 900 gallons. 19440. Have you tested her milk for quality?-Only

by charming the most this cow eccepture with other cown Mail How does this cow eccepture with other cown shall be a quantity would give more better according to the number of quests of mile. 10442. Have you any resson to believe that this cow'e 1942. Have you any remon to butter the work work not reach the legal stradard of bottor fat?—I believe it

She would give in full milk about \$1 lbs. of in the day. She would give about 22 quarts 10463. Have you had her for long?-Two years. 10445. Have you heed from hee?—Xes. 10445. What such of calvea has she preduced?—I carried any that there is anything remyrkable about

10465. Have you got them?—I have get a couple of 1947. Do you believe in the law of heredity in regard to milk production?—I do, six, strongly, 1959. Have you ever had any broable with tuber-calous among your outle?—No, melting of any con-

test?-No

1015]. Have you ever had remon to suspect that an saimed of yours was coffering from tuberculosis?-You,

\$0400. What action was taken in record to those ?.... I got rid of them. inspector?-No.

20488. He apparently is not terelibraries as an importer?—There is un one, by booking at an animal, except the animal is very far gons, that would know anything was wrong empt by applying the term 20456. Do you believe in the test?-Yes.

20458. Were they discovered by the witeringer 10454. He has not directed your sitestion to these

10607. Have you tried it?-For year-bod semula. 10458. Have you proved that the result of the tool was reliable at the post mortem communition?-Yes,

10439. Have you ever found it to orr \$- No 10499. We have been told that such the 10900. We have been told that such things have bappened?—I bare never known of one. When the annuals were killed there was generally a sign more

tested rgulo. 19422. You think they should be under observation?

-Xes awast. I can arread if all reactors were slaughtern; it would not help to increase the milk supply \$... Certainly it would not. 1903). I am afruit if all reactors were slaughtered 1004. Here we ever seen the tuberculin test arelies

1094. Have you ever seen the intervalor was square to a whole herd?—Not a delay herd. As for as my expensions goes, I would think that would be a very wise thing to be adopted—that is, to have all darp was cospected. I believe that is the one way they
was cospected. I believe that is the one way they
will get sid of tobercricels. ill get til di tomercicion. 10495. Are milk records usually kept in you strict?—No. I find it is exceptional. district?—No. I find it is exceptional.

10406. Would that not be instructive?—You
10407. Do you got think the cow-lecture are railor

they may have an idea that a certain cow, which gives vield for the whole year they find she is otherwisel-10468. And do you not think that the keeping of

server, same no you not train that the keeping of records is the only considerary method by which now-keepers can arrive at an accurate conclusion regarding the yield of their cows?—Ten, I believe it is the only satisfactory evaluates that they have 10009. Does the voterinsey inspector over make any

had suspecious with regard to any of your stock?-10471. Is the price of milk increasing or diminishing? This has been a datastrous waster for the darrymen. 10072. Has there been any intrease in the price of 10072. His sarry seem say moreove to say pare or milk in consequence of the increase in the cost of keeping cows?—Last Aurust the price was up by a

10473. Did that lead to any dimension in the demand?-No. 10074. The increased price did not lead to say diminution in the demand?... There was no diversarion 10475. Have you say knowledge of the class of peop

who use your milk in the town?-We supply milk to some of the very best class of people in the town, 10470. What supply of milk would be taken in for a family constiting of six or seven persons—fallor, mother, and four or five children?—We are supplying

small dairies in the town 19677. You do not deliver in small quantities?-No. 10478. Is the price at which you sell to the purveyors less than the price at which you deliver to painte emotorers?—You, a bullpring a good less. 10479. So that the purecyon have a profit on the reside of a halbsony a court?—Yes.

10090. Are thry careful about the manuer in which they keep the milk-these small shopkeeperrb-Yes,

19681. No prospections have been meditated? -- No There was not posteriors invested in installed that the retailed it, but there was no conviction. It was found that she offered the inspector milk that came in that menting, and there had been a little shop left in the 325

this women admitted that she had skimmed whatever cream was on the top for herself and her family, and create was on the top for accept the for thinny, and shy told that to the inspector when he same its 10482. It was feld that this woman made a borse fall statement and did not seek to mislend?—That is so; also did not seek to mislend.

10484. Are many farmers in your distinct cogaged in the same sort of tende as you are recast the towns. These are not so many as those seed to be. 10484. To what do you statibute the limitation in the number 3-11 is one of the orrowest businesses that a man can be engaged in.
10486. It is executing?—It is very execting.
10487. It needs occustant supervisuan?—Yes, every

day of the work. 10488. With russed to the help you employ, have you

10088. Whit regard to the belp you crupber, here you officed by in getting people is both after your come for the series deeped the week?—We have a difficulties 10080. In the control of the series deeped to be self-to-the hard below the 10080. In that are increasing or a diminishing difficulty—in it is possily increasing. 10996, To what do you self-to-the dast; in it had deaths for conjugated and decidents—That is one of the integra, but I think it is all the deaths for conjugated and decidents—That is one of the integra, but I think it is all do the to the essential.

inboot 10001. You have a sourcity of labour in your district? of mone.

169th I now have a searcity of labour in your distinct.

-Xes, it is very good as present.

169th, it is this growing.—It is growing very, very largely in our district. We have a thring market in largely in our district. We have a thring market in the control of the difficult to get astachatory hands, even by paying them almost deale the wages that we did twenty your ago. 10460. In it the contour to board the hands you employ?—You.

10s0s. All the hands engaged in the milk trade are legs as members of the household?—They are kept as members of our household. In our district there are memora et our touschild. In our district there are many pathir works, said the labouring man go to thee. 1993. They can get better wages, perhaps?—I do not think so, but they have more free fame. 1998. Dr. Meccaman—Wale waged do you pay?— From 456 to £11, and roose, in the half year, with

From 450 to £11, and nows, in the half year, with board and belging. 10007. The Charman.—Now, with regard to the personel habits of those ergoged in the heading of the milk, in there any difficulty in keeping them up to the standard of alemniases you would dense?—When we get a new head we have to look other ham for a little Sometimes they have been engaged in phone where they were not so particular.

1018. Is any inspection rade by the inspectors during the milion boost—Very often. That is the time they nearly slessys come.

1010. Do they pay perticular attention to that pre-

10400. Do they pay perturner attenues as man pay-tions of the Order compelling the owner to see that his combinate use cleanly in their habits; that they any complaint. Our assistants have always been accustomed to with their hands and the coun udders sociations to what the rather and the community of the before milking. That is a rule that you slopted of your own volition and independent of inspectation—Two; before there was inspectation will distribute for our own sake.

1000. In it a position largely followed by those oranged in the tradity—I do not think it is largely

capped followed.

16928. Het you do not think it is an unreasons

15023. But you do not drink it is no unreconcision to improve—Mo.

continue to improve—Mo.

These were been traced to the rick supply in this town from an outside district —None that ever has been traced directly to the milk supply. There was no outsided last year, 1000. It was a sent of supply. The trace was no outside last year, 1000. It was a sent of supplying only? —None.

1000. It was not not supply only in the contract of the probability of the contract of the contrac impection in the rural districts from which milk for supplied to the town?-Not unless by a voterymen

10206. What I wanted to know is this—whether the urben authorities over sought to make an independent inspection of any darries in the rural districts for the purpose of assertaining the conditions useds which the milk is produced?—Thay do it by their veteratory 

10509. The veterinary inspector is the officer of the Urban Council?-You. 16096. And he goes into your district and realers an aspection, and has authority is not questioned 5—Yes, a goes to anyons supplying milk in the town. 10310, Mr. William.—You do not recent that?—No.

we welcome him. 10512. What distance are you from a occamery?— 16512. You never sund milk there?-No, it would not

Mr. R. W. Hasser, 20th February, 1913

they do it at a loss.

16014. Lady Evrman —What is the price of milk 16014. Lody EVENIOR—WHAT IS the process of the connecty—I think it is foreperce a gallen, and the stran milk is returned.

16018. The Chamsess.—Do the counteries work in the under?—Not continuously. I think they get very little to do in the winter.

10016. They call work a day or two in the wick?—

10317. Do you keep up your supply in the winter as in the summer?—You. 10318. You never suffer any loss by reason of having a portion of your consignment conting back unwells.

No. We generally provide the that. We want some batter for our own family.

16579. Is is a difficulty of the trade that the demand is so unstable that a man may for five days have

is so meanage that a man may for the days have an his notife sold and the south day find some gallons returned useoid?... As a general rule, we do not com-plain of that. We grocen'lly know what our suplement went. Thes may bill off a few pileon with. They may full off a few gausses.
16030, If one wants less manther might want accer, and so it oposition shelf langel?—100.
16031. Has the pune of cown inseressed or dimensional to own that we would buy for \$10 fifteen years ago, we would have to pay 422 now for her. 10021. That is an encemous increase?-That has 10000. And you are not tallone of an exceptional

time, but you are talking of the average price for twelve months—taking the summer and winter together?— You. You might get a now a lattle chapper in Masch and Apell, but once you come up to Fuly again any degrans will be restored. If you wrat a really seed 16224. Do you think it commute to buy the best class of any 2—Yes, for the purpose I would require it.
16225. The argued that has proved so predicted, she was nothing special to look st?-No-

short 487.

1035. Dr. Mosaman.—World you describe her as the cid Inish cow?—No. She is of the shorthorn type. I find if we can get a Jessey steam in cer aburbarras that they are very positionly cown. If we can get a cow, for mitness, with a black month or accessed air. For a general purpose ove I find than to be short the less over in the constitue—a cross between a good the less over in the constitue—a cross between a good 16627. You would not have the first cross?-Yes, at is the first cross I would have

1608. What type would also assume?—Sise would have a black nose generally, and something of the Jersey about her, but still be a bigger boast than the 10020. What colour?-I have seen them of the colour

of a shorthern and some the colour of the Jursey, 10050. Have you seen some of them this came out the entire Jersey colour?-Not quite. 10031. Predominating?-Yes. 10502. And you would like that better than

showing a larger infusion of the shorthorn blood?—If the was a now with a good under I would prefer one that would take after the shorthorn. 10333, Your own particular taste runs towards the shorthorn 2 ... Ton. 10034. Is it a practice in this district to cross Jessey bulls with shorthorns?—There are few Jesseys structed our neighbourhood. I generally keep a pure-bred

Mr. R. W. Houx .- 20th Fritzery, 2012.

10036. Would not the bullooks he of less value?-You do think that it is the best type for 10537 You do think that it is the best type for milk production that you know of at the present time? —I would not say that. There is no one the hast type, but as for as my experience goes I have seen these coming oil buy will, meaning graces convex only, pool size, and in nine cases out of ten sich and good millions.

16000. Would they have the miserest quality of the Jessey in the richness of the milks—Thus is what I

2004). Are all the calves reared in this neighbour-head?—Yes, most of them are reased. consider that the best suffely cover

are being experted out of the country?-Undoubtedly a large processage go out of the country.

10543. I mean the well-keed in-sail heiders, do you

they stee.

10546. How many quarts of milk do you consider
go to make a pound of hoster?—About ten, on an
average. I have found less. I have found eight and
a helf quarts. It would be rich milk. 10548. Do you ever test for fat and sellifs to the milk?

I have not a tester, but the test that I reaks in, I put

the cows' milk morning and evening and churn it, and we get a very good idea of the quality of the milk in that way. in that way,

10344. In there is abscrage of milk amongst the
labourous in your district?—Well, I cannot say this
there is any resion to complete for our district. There
are generally small convicepers who give belowers

mille 19547. The Churman,-Tou don't sell to inhousers? 10548. Lady Evenant,—Are there manifescer in your neighbourhood?—Only rasny Union colleges in your neighbourneour-thity were present, but a great many are in contemplation.

peason, but a great many are in contemptation. We will have a great many mane in a short time.

1059). Does the former give the laborare milk as peat of his wages—Some of them do.

10690. The Channan.—There is no universal outlons? 10551 Tade EVERARE. Would you ple engaged in the milking bring subcorted to the serve

10002. It is to find out if there is a typhoid carrier? 18002. It is to find out if there is a typhoid containt— This has not here corrido out in our neighborshood, 18583. Of course, you have it is only milk that comes under the Celer—Tee. 18884. Would you approve of all the by-products of malls being put under the Celer—Sutter, choose, skim

milk being pot unfor use Urder—autor, cneeds, seem milk, and separated refit?—Yes. I thusk at it a self-y thing that milk alone devoid be under the Order 10085. The Chamman—You would have no objection to lies using dairyman ! I think they could to be licensed.

10350. Would you appears of it? I certainly would. 10150 Would you appears of fit I certainly world. 10207. Dr. Morrisca.—Do you have your cons-tested with the tuberculin test?—No. I have never bank divers the transverse bear. He is the never had them tested with the tabercular test. It would be a very expensive thing for a mun to do by himself it would can, say, it lor each now, and that would

cornething serious. 10558. You never buy a cow that is certified?—If we were huying a valuable pure-hard cow or hull we would sok for a certificate. would sak far a certificate. All our parasium hells are subjected to the tubercular test. 26000, Do you have your cours milled in the same shed as that in which they are fail?—Yes, always.

20060. Do your men use overally?...Yes.

2566. De you mile use ormans—1.6.

2566. De you chill the milk before you seed it out?

—Tes I have followed that practice, but stemps to my people on the town prefer the milk hat. For what reason I don't have, respect they think that they get more cream. It will also quicker to the top. 10562. Do you give your cove het food?-Name-10868 Do you give them erocked colo?-Yes, and bren and meals 10564. Lady Everage - Do you ever try coultyed-

No, we think it would taint the milk. 10965. You strain the milk before sending it out?. You, it is strained through a strainer, and also through 2000. Yas here now und colors not in the straining—50. We have the mild selection, to that there would be no estimated to a 2000. In Monareta—1000 wanty need to you captley far your tweets two coosts—time constantly 10000. In Monareta—1000 wanty need to you produce naith off—We would not consider that there produce naith off—We would not consider that there were no quart this winter would byou. In fact, I could not continue another waster supplying rails at that nee, having regard to the price of feeding stuffs.

1000b. In a normal amoun would a stiffing a pillon 1000. Ten would not like to get least—No I would you been

not undertake at any longer at less.

10071. Mr. Winson,—How long have keeping secords?-Three years now. We have some cours under the Department scheme.

10072. Are you working in conjunction with the
Department?—Tes. 1073. Are you weeking with them as an individual or have you a convenient amountains."—I are warden with them as an individual. We have no accordance 1907. What is your opinion with report to the proposed of forming such as association?—I think is would be a very good thing.

18078. Your mighbours, for example, must be taking a critical amount of indirect in the records you keep?—I am anymount of the they down't take an interest in the proceeding the control of the think is present in the control of the think is not the control of the think in precess in the control of the think is not the control of the think in the control of the think in the control of the think is not the control of the

a certain amount of interest in the focusing on negati-I am surprised that they don't take an interest in this. I am vox much surprised. I don't know shy the people in the country don't neem to take the And are they familiar with what you are daing?—Yes, and some of them are taking up the scheme hearilly. I don't think it will be long until have a milb teeting association. 20178. There is not much expense under the Depart.

cov. 10079. The Crumoux.—The entry fee?—Yea. 10390. Mr. Wilsox.—What happens in your case?— We take the test once a week, and the inspector drops in any time and theeks the records. 19981. Is the respector from the county, or in he a whole-time man from the Department?—He is a wholetime man from the Department.

10082. He sees the quantity that each individual tools, are sent for questry to the state of the cover is giving, and checks that with the records you are keeping?—You.

10.981. Do you not nelly keep it you self with your own house?—You. The improtor always taken a excepte for analysis say time he comes sample air analysis any amic no season.

10384. What nothed do you fallow; do you take the calendar year from January to December, or the lasts. calving to another. 10385. In the case of this 1,300 gallon cow?--Ter She almost miked up to her time aguin. She miled

for about into-seven weeks.

10395. If you put this own to a first-class shorthern bull, and get a bull call, would you met consider that bull call would be a very desirable heavt to give a premium to?—Yea, if his sire was of a millding strain.

1087. You would not more weight than is being done on a refficing sleaus, not only of the percesses had better fire again?—Yes.

1088. That would be difficult to get at present? but if the Department would specialise in secting that the pure-bred shortteen bells that they are sending

out for premiums are of a milking strain.

10000. Have you ever gone into the question of the
milk shield?—You, but I cannot think there was very 10,000. Have you tried to compare the astrole seconds that you have got with the shield appearance?— 10001. With regard to winter dairying, would you be

I could not truce that there was very much connection. 1000. With region to writer desiyati, would you observed you operate that without some system of consistent you have carrying out, the milk yield could not be very made improved—that the new-desting is assectial?—It octainly is, has in a read many came they den't feed their cown in the 10592. You may you had some experience that you emperied were telecretious?—Yes. 10583, And you got rid of them?-You,

Mr. B. W. HECKY.-29th February, 1912.

16666. What independent would you hold out to the small farmer to come oryang for the rot the first minute he suspected a cow of being sli?—If he could put partial congenities.

16006, I have head it suggested that if a farner

16006 I have head it suggested that if a farner

that such and such as armed appears to be suspection.

he should get full compensation; but that if the vot. discovers the animal on his rounds, the animal should be simughtered at the coat of the owner 8—18 world work out badly for the owner.
10297. There are very few of these samuals
appendix—the empicious over I am spenking of?—I reporting the supplication where a first specimen of Pro-turns the reason that it is thought there are so very free of them is because people, as a general title don't want to are out that they have telescalars cows. They would like to keep it as quest as they possibly

sould.

Diffe. We want to pub a premium on these poorlacoming to the set, and telling turn that they have an
arized that they are respected then? The left there
is a proper to the set of the set of the left there
is a proper to the set of the set of the left there
is a proper to the set of the set of the left the l

10000. In your own once, what was it that made you asymbotous?—If I see a row coughting or guiding dry in her cost I would begin to get sampkings, and get rid of her somehaw, as best I could. 10601-2. You are going to breed from this 1,200 guillon

cos and keep the hadrie ordworf.

Mr. Guarram—What bull one you using so this
cow mow?—I can using a bull at the precent time head
from con all flow olders core.

See a support of the contraction of the contraction of the
purchase in I i could get them with any sout et mile
counts. We have had one of these bulls in the
nighborhood—a bull bred by Mr. Hattle, of England.

1960. What shoot is not bull having!—Good cook.

19604. What stock is that bull having?—6000 stock. I have feen bedies from him as pressate.
19606. In the bull a good-loading bull?—Lee. He was with. There was not sufficient public spirit in the confirst to keep him there; he in gens to Audrim.
19606. He is not look to the contry?—No.
19607. Heer did you select the bull you are ostong?—

10008. Your present one is of your own breaking? -Var

1000. H you had not one of your own breeding, how would you proceed to get a hell of a militing strain?— Unless where you buy a non-pedigree bull—dre instance, a half that has been selected by the Depart.

10510. Supposing they were not there?-If they were man exposing they were not there—if they were not there then we would have to do the best we could 19631. Mr. Wilson—If they are not there if is the Department's fault?—Yes. The Department, I think, are not taking any steps up to the possent, to far as I can see, to makes men to breed from a

milking strain
10582 Mr. Courrent.—You have in your own case
been connected with the Department scheme?—I can
give you my expension. I got thice bolds. I beel
three bold solves from these cover and a your-beed with.
I teld show to Bellion has veer mad I only got
commercial prices for them; they were not in only got
commercial prices for them; they were not suboded
because they wen not the spoore thicky your 10013. What did you get for thom?--- 413 12s. 10014 They were not very good?-Our was been

from another cow that had given me 1,900 gallous of noth in the year, and I weighed the milk and had it sturned several times during that time, and she gave me up to 2 lbs. and 2 can of bratter for one day's milk. That bull was rejected because he was a pull. I was saled why did I take the loans of him.

10045, Did you show him as a shortborn?-No. \$1616. What did you show him so?-- He was shown as

10617. Did you give in any name to bim as a breed?-I you pre-birm in as a bull from a cor under the Department's dazy scheme. I said that they should not have effected his dam as he was a "mool" or poll. 10218, Are there many of these "mools" in the logists. Are more many or inclined to make them the breadthon of a breed?—No. The dam of this cow war a pure white cow—a "mod ——a good dainy cow as cross with a pure white cow—a "mod ——a good dainy cow as cons with a pure checkers had of the efficient type,

PACON. The Chancus,—Had you may other call that was approved of?—Noor that year. The balls that were selected were of the thate, blocky, shockban type. The militing airms of the does never was taken info-consideration in the selection of these balls.

1982. Mr. Current ... Women your reporting conformation shops the 2-No. 1983. What would you do? ... I would try to get con-1983. What would you do? ... I would try to get con-

immittin together with work at the peal. You arenet get a blocky least, as a general rate, to be a good 10684. The Chargery,-At that sale was say bulk selected by the Department of this particular type?-

10025. What shape were they?-The blocky, short non type.

1003 It semetimes does bappen that the conforma-tion may come right, and that the anomal also may be valuable from a mile-producing point of view?—It may

whoster come as the description. The good duty com-ing the sure of the composition of the pro-ton a nearon from each is well-paskaged in appearance, the composition of the well-paskaged in appearance, the composition of the in frontil-View (that is to any, a good duty our whould be merrow, wedge shaped.

10020. I know that the idea does prevail largely, that they should be always of than particular conthat they should be always or this paracrite con-formation?—That is generally the shape of a good dairy cow, and they are rejected by the Department. 10530, Mr. Camenta.-I think you are somewhopposed to the Argentine trade?-No, because if could breed built for the Arceptine I would do so.

1965). The two autorests are conficting?-They see. dairy ontile should get some inducement, and the Desartment are offered some inducement at the 10633. You would be to favour of giving a premium

10833 If you were to give parentiarm on their milk records, and the milk record of their dama, you would got a large number of these by and by?—Yes. 10834. And you would have to reduce the manny to

nosts. And you would have to reduce the manny to let it go round?—For some time to come. If the Department would sity, "unless you keep a record of your pure-bood cows we will not you their progeny on an promner holls." 19835 You would lift the Argentine trade with a vergounce?—That trade is predicable for those who go vergenced—Table times is pressions as a con-infer it.
1985b. Would you say shoy also indirectly himself-the store tends of the country?—Tes.
1983r II the value of the trids depended on the price they get far the Augustine, that would be very small?—II vould.

The though the three way to footboat and elsewhere and

80408. But they go to Scotland and elsewhere and but valuable anguish, and they benefit the store trade: -Yes, they have done that to a large extent 10030. What passing would you be setteded with 18000. What permitem would you be setteded with for bulls that were put on parely on their writting records, paying way fitth attender to "blockiness"?— "In would like halfs of a fairly good sheep. 18000. You would not be satisfied with that by said by. You was their records III—III. In Agrahire havy loop these records not beed from these bulls, soil it thank they had for some change about them, as well as

Rickl. But not the beef shape5—Yes. Messer. Hobbs and Burk bessis, while they don't come up to the standard of Argentine besets, are yet a birly good type of annual. They may be a little light in fronk but yet I think the progressy would make good sleave

Mr. R. W. Hysny, -29th February, 1912. 10842. That is only one, and what I am trying to get at in thus-in a very few years there will be a very large number of hulls offered as a result of those tow-iesting associations, which are growing very rapidly. In five or an years they will be so memoreus repelly. In two or six years they will be so neuroccou-tant if we are going to give them precusoms on their millions qualities, and if we try and speech them still cover the constry, we will not have enough of meany. There is only meany to give a thousand premiums all round 2—1 think they would be meliable with a 10663. Would they be saturded with helf the present pressure?—That is £7 10s, and I don't think anyone would be satisfied with that, and comply with the 10544. Do you find the records take a little turne?-There is very little time or trouble, once you get ano the way of it.

10645. What day of the week do you test?—Security rails on best these last twelve months. 10566 Do you know that there is an increased freely verre?-Yes. 10647. Which corresponds exactly with the time that you began to get good cows?-Well, you.

10648. And they take the very best cows?-They take the heat may can get.

10642. Well, they are taking good nows?...There is
no question of it; hus I think that if see copply wes
kept up there would be as many before kept on of a good milling type to take the place of these.

10650. You rather indicated that they were fewer

> to the bull
> to the bull
> to the bull
> 35001. Yes, but have you not found it from your
> 35001. Yes, but shoun?—Not to the same degree.
> 50002. Have you found that the same hell gives you
> \$50002. Have you found that the same hell gives you good hances and the many do so as long as they are stood-bad?—Yes, until we get politice.
>
> 18654. Now, with segard to your records, don't you Motol. New, with required to your records, don't year find this—fact year find their acceptant gives you find their acceptant gives you find year may give you find year find you don't know. A few that will give 1,200 getters this year you could not expect her to you for the year find y 10855. So that you must not put too much stress on in the milk trade and that the other se not. I know it is a very difficult thing to work cot, this Department 19684. Eaght hundred gallous is a very good record. in it not?-Yes

10656. Is not there a danger that people might put too mices letter to the representation of the short-best we cannot get away from the fact that the short-been of the present day is not a suffice. \$0007, With regard to the milk supply for Newry, how many miles do you live from the town?-Three 10608. Are there people further off than you sending milk into Newry 5-No. raffs and Northyr—No.
16220, Do you know of any of your neighbours
smaling refit to the White Cose Counterst—No.
10200. What do your neighbours 605—They thereo
and sell the butter in Newty, and they also sell their

10561. What do they get for their hottermikt- &c the butter c the tutter.
10002. Taking the bettermilk out of the account. we getting more than if they were sending they malk to the cresmary 8-Yes. 10060. In other words, they got more for their hutter than the cremmery is getting for its factor?—No. 1006. Taking the britternilk out of it, they are duing to better than the creammy?—I dun't know Taking an average of thirteenpeace a pound they would not get that from the overneys, and they are griting that rattermile sold. 10665. It is the buttermilk that is paying them?...

10666. They ere only getting twopence a gallen for 10567. Is there a good demand for buttermille or SE STEWART WOODSCOR.-YOU labourers in your neighbourhood gotting milk angles from small formers who keep one or two coses [- Yu. 10071. I suppose the Order does not apply to these 10072. The CRABBURN.-They are not inspected?-No.

10073. Or registered?—No. 10074. Dr. Mcounton.—In the fairs that you attend 20075. What class of people milk these count-Sometimes the dealer's man or the man who buys the

10076. Are they not milked into yessels?-Someth 100%. Aft mey too minod into vessels r-occurrences into versels only scorelinas on to the greens.

10077. You have often seen them milited not versuls by poor people. Tes.

10078. And, of course, these people's condition is next understood they want a deep of milk, and they are understood to the course. 10079, There is no supervision over that?—No. 10080. The CRABRICK—What is the average round in elve mentls for iwenty cows as almost 800 gallon. 19881. That is entremely good?—Yes, but I should oriflony.

10865. You have not brought fresh calving cows into
the beed and included their milk in 197—I generally
hay a good sperings when I get hold of her. There are
there or less getting out of the hard every year.

10008. You climinate the light milkers?—Ten.

10008. You climinate the light milkers?—Ten.

10886, Mr. Caurenza, There are some good militing 1986. Mr. Campiana.—Incre are some good making owns in the country still?—You I am sorry to my that these cown are not of my breeding; they are hought in. 19686. The CRAIRMAN,-How many balls that were offered out of the dusty herd were selected for premiums in Belfutts—Eight or ten. 10887. How did the premises bulls sell?-A few went for good prices—that is, a built much of the short-10088, Lody Evmoure,-What do you call priors - One went to 255, and from that down to 255, and from that the premium, of source, but \$10 on to the value.

Mr. Jose McDussorr examined.

you have you criticate written cut?—Yes, sir, 10220. It is mainly on insurance?—Yes, sir, 10091. We would be gled if you reed it for us, Then we shall sak you questions with regard to it?-You.

10002 Will the insurence scheme you contemplate
be carried on by the ecomory society?—You, and it

10880. The CRAITMAN.—I understand, Mr. HeDermott, out he run either by a proprietary or co-operative overarery. I have about four-tree years' experience of the dairy business. During that time I rotice the heavy. This see daily framese. During that time a nonee me supply of milk getting less yone hay year. This dearests in the quantity is not due to any fullinged in the number of sows tops. It believe it is due to the degeneracy of the cover, so the at their milking qualities are concerned. This decline in the milking qualities

Mr. Jone McDamson. Sth Friendy, 1912.

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is mainly due to the introduction of the sheethern breed of citile, and it is more or less concurring authentionally, of evens, by some of our agricultural above. My reason for exting this is due to an incident anows. Any reason for saying min is one to an incident that occurred about four years ago. A gentleman selled on me and asked me to had two samples of milk which he had taken from two cows which he had for competition in the Dairy Class at the conceas are computation in the Dairy Chine at the Newry Show, which was to be held in a few days afterwards. I tested the milk. One sample contained 2.5 per cent, and the other 2.8 per cent, of fat. I explained to him this both samples were very very poor, exponence to miss that both surgates were very very poor, and he said he expected so much, and hold me that number of the cover would give as much mile to would been her own call. Still he hoped to corny off the first price for the heat drive cove at the Show. I med the man at the Show. Things had turned out as he expected. He brought me to see his cover. He was expected. He brought me to see his cover. the Danish, the Canadam, and all other competitions.

Appler processe which I believe has a very required. effect on our milk supply is certical on in this locality, end I believe in a good many other parts of Ireland. When a famour happens to have a really good

end I believe in a good many other parts of Ireland, When a farmor happens so have a reality good cow, he says, "there is a good shed of coursy in her," and that he will illusion of her in order to get the log price out of her. But is purchased for a dual-ment at some of the Larger willow mirefacts, such as Beliest or Liverpool. She is full well and rulling and this zero, and is the cell of this sensor she do of this this ment, and it the call of the severe has a score out fit to the batcher. So the country is till of this good owe said the breed of her, and there is solding beth in the country to head from, only a very inferior class of cow of me particular breed, and those we coused by our fermous wheethern balls. Togethra with getting the big money out of this cow, the framer has peting the big money out of this own, the fitners his suchbin ruses for disposing of her, was, he mangines that because the is a really good rafther size in most libilit to take mild fewer and other discovers, and that if abe happens to die he has nothing to fall back on, and he on very beelly you by with the loss. Hease the necessity for some closey form of insurance, the will have the two-old object of minimization of the finner both in our cowe said in our system of sharping. It is heely fair to give this sobarus its persent nems, but for want of a better name I called it. "A Mitch Cow Townson School." It is briefled to "A Insurance Scheme." It is intended to do for more than indensify the farner against loss through the death of his cover. The mais objects are to improve

death of his cown. The main objects are to improve and increase the milk supply, to ensourage the farmer to reise and keep good mile) cows, and to treat them so m to give the most only possible. It will give the farmer a greater interest in his dairying business. is will enable the overmory to maint on a pure and bester milk supply, and it will create a more friendly facilize between the cataling greameries, whether soregularized as will give witnesser long made it 00 s hours popular anxiety over the cresumeries this either of the two recognized bodies (the D.A.T.L or the I.A.O.S.) have at the present time. Oursers —(1) It will indicately the former agetrat loss through the death of his cown at constenth of the cost that any for dispetes or littention to open in. It is automotic In this respect. (It The improvement in the milk supply. By whiring the enter for the purpose of com-presention on the brain of the milk vield, you encourage the formers to keep a better class of cow, itsed it better, the formers to keep a better dam of cow, food it better, and in every wave per greater attention to the daily cattle. (5) Is will give the farmer a greater interest in, his commercy, because by howing a better supply of rolls his occurrency can be of greater benefit to their and he will understand that if he haves the occurrency and he will understand that if he haves the occurrency

be entitled to on the death of any of his own, and

that no other exemery will accept the mife without written authority from the greamery he is leaving, and a permut from the covering insurante body. (3) It will create a intensity facing between originatoring commercia, whether co-operative or proprietory. because it will steep our water is moved to while furner cannot change from one creatory to another at will. The penalty of factoring his insenses we rought to there him from the cannot saddition the creamery he spyles to counce about him without written authority from the creamery he is berrage, and from the central suffectly. In this way a working and from the central suffectly. In this way a working greenest of component in the property, thet may poss up the schrene over the opennenes that will not be body control over the columnum that will not held exceeded by the framers, bosomes the framer will then bod but by a direction, but the framers will be become it concerned. The northing is to first the from the fantoid point of time, the possible is from the fantoid point of time, which are to be the former to be the fantoid point of the point of the from the fantoid point of time, which garnes—Lee, Perhaps you would have some questions to six, 10004. You eccolemptate that the governme bodies that would got the internates whom fitte openium to ex-

10000. And you would not embrace in the insumma

10006. Are you stanished with the ereamery manage-neut correct?—Yes, I see the manager of the 10097. Have you any experience of the production cow, she will not give an much milk as cows give your ago, and they attribute that to the shortborn. years ago, and they attribute that to the shortborn.

10998, How long me you connected with the White-cross Country?—I have been anguged there for

fourteen years.

10099, You use of openion that the yield her dimensived, though the number of sows in the same?— 107.00. Here you any reason to complain of the condition in which the milk is sent to your creamery?— No, but there could be an improvement.

19783, All in the Co. Armogh?—Yes.
19784, Mr. Caurenz.—A robus of time miles?—On
the Neurr side it would be less than nine niles.
19704. Do you supply new milk from your creamery?

-Tes, we send milk to Beldest. 19796. All the year round?—In the winter moniks only. Last November was she first time I storted at

probe. How ony comparist over been made by the Public Herith Authority of Belfoot as to the condition of the milk sent in by your company?—No. It is shvays pasterment, and we shvays see that the cause me thereuppiny clearaed. 19707. In that your exclusive trude in the winter?-10708. Do you make butter as well?—Yes, 10709. In winter durying servied out in that district?

No. On supply a silvary small in the winter fine.
It is not sufficient for oremory purposes.

10710 In the winter supply in increasing or a dimension quantity quantity. The is distinctioned assertion. 10711. What do you attribute that to?-Some of the formers complete that no matter how they feed then cows they will not give a good supply. a swillon of male.

10713. Mr. Campuing. -In the commer what is the 10716. The Crammon—Is the colls graded in any way?—It is torted and paid for in proportion to the fat contained. We have these auxiliates working in connection with the center. I have a pasterilling incurance. (4) It will enable the creamony to incust on a purer milk enough. The farmer will need cleaner

10715. You do no trade in the summer sesson will Relicut. No, we have only tood on the new sull trade with Bolicus since the lat of November last. 10716. Is four-point-halfpenry the best result you one get from buttor-making? - Yes, at the present time, 330

with a small supply of milk, you counter pay meet. When our empty was larger in years goth as average gelles was diverposed, so you believe the food supply to the core inclusioness the quality of the coulter-position of the core inclusioness that all years of giving risks sufficiently than the property of the core of the core included in the minutally—first. If you allow a core is after-gross and obvert, the quality of the mill. In payed by a land one pay you area, core took and the property by a land one pay count, core took and the payed by a land one pay count, core took and the payed by a land one pay count, core took and the payed by the mill be payed by a land one payed one controlled the payed by the payed of the mill be payed by a land one payed one controlled the payed by the payed of the mill be payed to be a land one payed to the payed to be payed

inherence in the crustal V-Ver. If New Alice were concording to the control of the control of the critic integrable of a load energy control.

A world-Ver. Course or Westell she come beth again in a world-Ver. Course or Westell she come beth again in the control of the tension for bother day, but in those some the quantity of the control of th

Biri33. And the distengates of all pastures is not so beneath?—In such, 1974. And the core research distance will 1974. And the core.—They are very creative, distance will 2075. And the notic supply seen in great evidence of crea in handlar, so the face describings in concerned?—In 1975. Here you be return it often 3—30.

1977. Here you be return it often 3—30.

1978. It is known that the expertation is sitted,

100° M. is a frozen that the supervisors. In tritical consequent on that section test classes—"less, the design control and the section test classes—"less, the believe first that Oate' is a really good Oate', but that Oate is nowly good Oate', but that Oate promoting, the sheet for the first the posses, it is supported to the section pool of th

at silf.—Yes,
10731. Bu you retail until in the ceometry?—Any
time two were even applied to fee suit, wa sald it,
where the same proposed to the suit, was sald it,
which is small quantition—Here hadpenty—
etchia.
2018. Your principle is that you should not deprive
the poeer people of an important strains of silon samply
hereuse they can only afterd to buy a small quantity?—
which had been been colly afterd to buy a small quantity?—
which he should be placed to snaply any quantity,
to

on matter core sensus.

10784. Does that apply to creamentee generally in
the North?—I three us experience about other
recomercia.

when the custom powerfu?—I save other recomercia.

whether the custom powerfu?—I save other recomercia.

whether the custom powerfu?—I save other recomercially

when people pit buttermelfic e sides mill, but I don't

think any creameny would object to add mills.

10795. Year oreassesy as surfacions and the suffice.

—Yes.

16787. And is the separated milk always returned to
the person secting to the pure milkt—Yes.

16788. Yes do not set all the separately—No.

16789. Then is no demand for it locally?—Yes. Tray
rear all their calves and page on whim milk

16789. To they supply the defending in bratter fair
by other foods—Yes, insues.

by 0000: 000ar-a names.

10741. What effect has that on the store stork of the country; has it improved?—The ferrors my that they can give a good prices for calvers for on apparated unit models and the country of the

ditions to eighteen incertion of it.

19743. Where do you send your butter?—I seed it to Editharph and Bellant, Laverpool, Glasgow, and to Inveness and Abouteen.

19744. Here you a constant trade with merchands there?—In Editharph I have, when I can supply it.

three?—In noncourage I save, when I can supply it.

19745. Would you get a helder price for your hutter
if you had a continual supply for butter months?—Yes,
I think I could increase the price. That is what this
unurance scheme in intensiod for—to increase the
nuraly and innover the quality of the now.

10748. Are they the collinary shorthern orses-level one that are kept in your district?—I don't believe they are of any particular type.

10747. You have not got the mile of may Jossey?—

10748. Or shorthern herd?—No.
10740. It would not yield much return at areatory
praces?—No.
10730. Mr. Wranox.—Le the solution that you referred
by in adjace?—It is at persons in operation at White.

10754. It was a lofy who told us that, and she could perform for resons. Would you see say seems properly to the control of th

TOTAL Bears who said mile in Norry-North Line is such a first a such of the same of the sa

100%. Even you say vites at all what is the avenue yield of ruthe yet over somey your shoulds—Machael 400 gallons, nugdyl;
100%. We Chrumess—That is an extinute of the questing nuydrids—Yes.
100%. The Chrumess—That is an extinute of the questing nuydrids—Yes.
100% of the Chrumess of the property of the christian from that for the french of the property of the creament, soil the first the avenue of your number of your large when the first world give more than 400 give believe the avenue you would give more than 400 give believe the great your large years.

on't tellier the average one would give more than 4W gallons.

MF08, We had avidence to-day from Jerrotopois that the average yield of a hard was 800 gallons5—The sam who stated that did not recents or weigh it.

9704. He did 1—That would not represent the average of a honday.

10906. It was the average of the cover.—The average over world not give more they 400 pillens. 10906, The Custuver.—If the de a new that gere 1,500 gellens.—He is a very basky men. 10909. He was a man who took every possible arm of this cover, and for those or a ratheful facility for electomonths. Deen that outlons persill in your district— No.

10708. Mr. Winney.—On the basis of 400 gallons on the average, or 500 gallons, there must be no essendingly usual surgest of profit—I believes sweenful forecerare forms money. They pay no attention at all to that calculation of the count.

100509. In your opinion, if si were possible to interesse the milk yield by 25 or 50 per east, the expense of

reletting of the cour.

10000. In your opinion, if it were possible to increase
the milk yield by 25 er 80 per cent, the express of
probations would not harman in properties orbivately.

10070. And their would make a margin of profits—Vive.

10070. And their would make the profits—Vive.

10071. Has mayning been done in your distinct of
that repost—No., but this selection will re-vive.

Mr. Jose McDuescop,-\$96k February, 1912.

effect so far as the bent is concerned. By introducts this scheme you will give the farmers a two-folds \$0772 All that we have beared about the Cow-test-ing Association is that it will get at the individual cow? By introducing this scheme you will give the farmer a two-daid object. He will try to word out his bad cover and replace there by good militars, so that reducedly it will have the effect of the Cow-testing

Association.

10778. Mr. Camresax, --What is the test of your milk
to summer? --Whe everage would be about \$.5 per cont. 10774. In the country from which you dow your milk very poor land?—No. It is not very neh pesture other. It is about average land.

cibbr. It is shoot sweeter that the property of the property o mountain milk showed a very high percentage of lat, mountain with success a very man present and I got it tested:

MY76. The CHITMEN.—What did it male?—That was in October, and I think it tested over 4 per cent.

9777. In not that the highest time?—It is retar in

October and November than any other time of the year 19778. Mr. Campuila.—Is there a popular opinion less that the land is so poor that it will not produce not mail?—I think it is more in the quality of the

100TP. You have not heard that opinion supremoi?-10780. Is your land granife hard?—No.
10781. You say you have add sails to persone in
pennysectha?—Yes, but it is selden it is saled.
10782 Would you be proposed to do N?—Yes.

10783. If the people same driftling in all the morning?-I would arrange that.

segment massed arrange tens.

50704. It weakl interfere with your management if
the people came in that way?—No. We could put a
cam of rank ands and list one of the attendants attend
to it. They come that way for bettermisk and we
don't find if any inconventage. 10765. Do they came for it at different times of the

10700. Do you think a recommy is a solitable place for retailing raffs?—I don't think so. 10707. To whom do you retail st—are they form in-10735. Are these form labouress from the farms where the milk comes from?—No, they are not. They necessary and content from - over, only 400 Met. Thisy one some mill workers and bind moto.

10700. Do the farmer supply their labourers with milk so far as you know? — Yes.

10700. Here you say Umon cottages in your dis-

10714. Who supplies the companies of those with milk?-A pointhouring farmer. supplies them send

milk to the oreanery as well?—Yes, 19766, Are you saver field that is the case?—I am, 1976a. You think that is pretty general?—It is, Any farmer would not deject to sell milk if he get paid for it. They would rather sell it to a labourer at a pump a pict them could not be creamer. 1970a. There is nown a second; in your distract for demandia corress?—No. It is now and only domestic purposes?—No It is never reduced to

10796 The leboures get sufficient you think?—Yes. 10797, And the furner's femily?—I believe they get say amount of it.

1076 There is no talk shout the power people not getting sufficient milk?—No: it is percer reduced that 10700. From how mear to Newry do you draw your

milk sough?-About 84 miles. 10000. Do you mean to say that they would bring their milk to you for 84d, and 4d, when they would get a better price in Newry?—They would not get sale for all the milk in Newry. They mught get sale for it in

10801. What do they get in Newert-I think it is never less than 8d. a gullon.

1860. Do you think at would pay a most to buy milk and setol it in to Kewry, instead of the Newry men terrag to produce 370–Yea. H I could get a Newry man to take suith from me at 8d. a gallon I would be well satisfied. I are supplying Belfast at 6d. a gallon, and if costs on a pump to send it there.

1666. Do your books show that the supply of milk is going down?—You. 1600. Do they show that the supply of hotter is going down?—For the last two years we have lost cortomers on account of the Daries Order.

10805. The quantity of milk, you say, as going

10606, Do you think that me the case all over Indiand?-Xes. 10807, So you would put the decrease in the export of batter to the reduction in the milk supply?—Yes, that the cows see not milking so well. start the cowe are not mitting so well.

10908. And you say that no matter how the farmous feed them, they will not give a large quantity of mult?

—That is no, compared with ten or filtern years ago. 10809, What expensence have you of ten

years ago? —I have been the farmers complain 10040. And they attribute the decrease in the yield male to what?...The introduction of the shorthern 10821. What bolls do they me?-Whatever boll is 10502. Would that he the shorthorn?-There are lots

of them short the country.

1803. Would it be the sheapont bell?—As a rule, they only change 2s. or 2s. tot., except for a bell that is on the Department's persistent, and I think they change 10014. In social not be the premium bulls that are at fault, but the other belis?... So, it is the becod of the

10815. You cannot get say buil that as not a progeny these premium bolls?—Hardly. 10816. Do you look for them?—I went myself to the trouble and expense of getting a built from the West of Ireland that belanged to the old Irish beed of oattle. 1987. What is he like?—He is only frugteen months He has the agreement of coming out a very good

bell. They may be keen a more hore, and he is well shaped, but his colour is not so good. He is from a aped, but his colour is not so good. He is from a ed calling strain of eathe from the old lifeh breed. 19818. Dr. Mccesson. What is his colour?—Hear. He has a dark atreak through his bead. He is a kind of briefle and they call him a "briefly" from his belodie and they call him a "brancy 10810. Mr. Campuna.—An old Irish breed?...Yes, but the people don't care for him on secount of his

1983). Mr. Winsov.—Was it you or your county bought it?—Myself personally. The dam is a good miller. She is brindled also. 10821. Mr. Campura.—Han she herma?—Yes 19821. Mr. Cameria.—His she hermit—1es. 19822. The Cuairnan.—From what part of the West d you get the built—County Recommon. 19833. Dr. Mossmap.—To what temperature do you

best will in your occurred --to want semperature do best will in your occurred --166 to 170 degrees 16604. The CRAINAN. --You make of some of chimis follog off on account of the Order? ---Yes. rema manug off on assecuts of the Orner?—Yes. 10823. Do you find any change in the milk supplied to you since the Order same CoUT—No. We shows a mission on clear only, and it fory and dirty case I would return the sull to write to them show the to 1000. See you shan you had conceptained when the Order's—In at previous to the introduction of the Order's—In at previous to the introduction of Order's—In at Order's—In a contract the Order's—In a contract the Order's—In a contract the Order's—In the Order's—In the Order's—In the Order's—In the Order's—In the Order shows the Order than the Order's Order to I was the Order's Order to I will be on the Order that of I will be to I by the Order than the

10828. The separated milk is not treated at all?-

No, but even if milk sent to a recentry is not housed up to practorizing point it is presided. The expansion in eap of the best filters you can use for milks. 2650. The CHRISHAM.—Tour main objection to the Order to that it does not apply to all milk products and well so to now milk?—The, because it does not apply well to be her min-less, consider it now one appry to avery corrieoper.

10000 Mr. W. R. Ed, Clesh of the Newry Usees.

Would you permit me. Mr. Chairmen, to said through you a quantize of the writtens? I can how, secretary to the Newry Show. The writtens has used a state-ness that it not correct. Perhaps you would permit

me to ask him one or two questions.

The Crammav.—I would prefer you put them on pager and I will try and elact the information you re-

paper and I will by and chick the information you re-quire from the witness.

Figli.—I will do so.

1000.1. The Characters—Will you kindly go on, Mr. M. Dormett, with war meanance observed—Tec-10000. We small be glob to best what you have to any in reference to the firmanial part of 165—I would

nted made digitised by the University of Southampton Library Digitisation Unit

Mr. Jone McDesseovy, ... 39th February, 1912. inave out the marketable value of the row and value her on the quantity of milk she gave. My system would be to deduct 6d, in the # from the value of the from Germany. They were taken from 123 ex takes in Germany for a period of four years, from 1960 to 1907, and the mortality was shown to be 1-10. In France for the same nerted the mortality was 1:30, so that the figures that I have given will cover a 2 per ount, mortality and leave us a fairly large balance to pay for covering macrance. The charge that I have cent. mortality and neare 30 a near the pay for covering insurance. The charge that I have fined would work out at about 30. 2d. a cov in the year. That would insure a cov while for #12 and would draw the former compensation for £8 96. 8d. If the framer can increase this supply of still, Ill peace. at the creamery will be increased, the amount for each own will be increased, cold the amount of premum as also increased in perportion. If he arcreases the sup-ply of milk, he increases the receipts from his milk, the time is increased, that the amount of compensation is increased. Bay that a society has about 2,000 cows, their dealings for the first year would work out the this. For the first year the farmers would derive no

henefs.

1988. You are modelling your scheme on the Chap-celler of the Exchequer's scheme?—If it were made compulsory, I believe it would do more henefs than control of 100 analysis account of the companion, I believe it would do more benefit than the Llayd George scheene. Sey a screety has 2,000 cowr, the figure will work out at 3a, 2d, a cow. The total revenue would be 2010 10s 4d. On its other side, we would pay to the governing insurance company 40 affiliation fee; 5 per cent. of returne to con-

100 0 0 waries. 1.590 0 0 £1.690 0 0

To Cush on hands, 1.422 10 ., Introduct on reserve at \$4 per cent ,, 5 per cont. of revenue from 100 cresmeries, . . . 1.590 0 0

43,138 1 3 Each of the orenmeries assisted should be compelled to provide for, say, a half per cent, higher death-rate in the following year. This will increase the payments 10005. Have all the contributors to your crosmer agreed to this arbeme?—No. Only twenty-five spreed to this arbeme?—No. Only twenty-five parted, because I got no person but myself to organize th. Being the first to introduce the scheme, they were ii. Being the last to introduce the scheme, they were singuistives, and they through I wanded to make sumating out of it myseld, and they wanded to watch until they saw it working. We worked it for your and a last with twenty-five members, repeaseming 126 cover, and we have at the present time £21 is, 11d. on hards after we push fee two cover that were lost. 10896, Mr. Witson,-You enforced the clause about 19897. Mr. Canruna, Do you know of any other creamers that has taken this any No. It was talked

10838. Have you tried the Erick Agricultural Organa aution Somety to take this up?—Tes, but they had a scheme of their own, and they are weeking if for the achience of their own, and may are weeking in me one shaft they sure and they have not a single modely or gazined yet. I have made no previouse in this only what would pay for the own. I have life nothing for adaptic. I did not think there was sufficient money in it for any coulded tody to take up. Than applie, if was a new famg.
1989. If you should hit on a had year and there was
an epidemic, you would be viped out?—No mannance
company will hind themselves for anything excepting trol hody, £15 10s., leaving £200 17s. 4d. balance of cosh in bands, and the second year's working would the other side we would never—attraction to be contri-body, \$11.5 per cent. of severance as covering man-sizes, \$15 lbs.; price paid for forty cown at \$8 bs. \$4, \$359 bs. \$4.; believe onth on heads, \$307 bs. \$6, that a man has six cown whose milk be needs to the ereamery, and that he receives \$36 for the season; that is 40 per cow. We look on each of his cows to he wides

for All. He is given one-sense of this man, the whole thing is assessed; 10634. The price is assessed automatically?—Xm; there exall be no room for dispute. At the end of the scoond year we have 2007 Sr. balance cash in hands. from 2509 17s. 6J, to 2509 5s, 0J.—that a anoli is since 28. A following for covering to body one be formed by a number of sensored s (say, 100) young logother as paying 5 per case, of their research, depther with it hady to be managed by a Committee elected by the creaments and worked in corporation with other D.A.T.I. or the I.A.O.S.; the overing body to plan 24 ellithiath for east, say, 10 per cent. of the 216 fer to pay management expenses, the halones of the gain he for any management expenses, the halones of the ga 16s, to go into a common fund to assist society having a desthaute expension of most ing whatever percentage their estimate provides for, half per cent, or to whatever the funds will penuit

By Expenses, being affiliation for and 10 age agen, neing affiliation for and 10 per cent. of payments of Covering Boolety, 257 10 0 .. Belappe of cash in hands. 1.423 10 0 £1.690 0 0

SECOND YEAR. 257 10 ., Beliago, each on bands,

> 45,188 1 3 per cent. Our charges will cover more than 2 per cent. mortality in the first year, and the second year we observe 2 per out, meriality again. We would then are two years' meems.
> Meen "has Caumays,—Is there much less expencored in your locality by inherostrum come?—I have head of only one. She was condamned by the vision may improve and the pulse were modeling her for three or free days and also disappeared; but I do not hallow the covere did now, with her. 19841. You have not heard of any complaint of any 10845. And you have not heard of any animal being

condemned to simplifier by the veterinary impostor?— No, except this new that I mentioned. I do not know 10945. Is milk four at all veryalent in the district 10044. It is not a cumble mainly?-Yes. maledy has been greatly reduced during the last few 1986). Is 10 customary for cowlespers in case of this 10846. The question that Mr. Rell wanted to sak w 18646. Was question that Mr. Bell mented to nal venture—With regord to the sover that you need had been awarded first and second price at ha Nowry to the property of the second price at he Nowry Color. It was the property of the price of the second price of the price of the second price of the price o

Mr. Josev McDraceover, -- 29th February, 1912.

of the Show, he select me to see his cowe, and stated that he had got first and second prices, and he seed, "that is what the Shows are doing to improve the milt qualities of the cown in Ireland." He said he never more with fourthcolory.

18847. Those were salmade of the Stud Book confer-ration?—They were square, kig, well-coloured over to look at and had all the appearance of milts, and be told me that they had a very small yield and that the

told me that they had a very small yields and that no quality was possible to the first middle of the control of the waterd to know, Mr. Bell? In High.—That is sail you wanted to know, Mr. Bell? In Mr. M. Dernott's elem-nated to much baccessity. I mall other was the most in much baccessity. I mall other was seen tra-teed to the product of the control of the con-tingent of the most of the control of the con-trol that the control of the control of the control witness.—I was of I think the near was Emerican.

Mr. Bell.-Both of the cown that got prints had a record of 1,000 gallors.

10699. The Charman (to Writeds).—Was it had your this occurred?—It is shoul three or face years age. It am only itsing what courred. He skeld me to test the milk. He told me be had got fired and second prine in the Dubry Cheas, and he said he never any such

Mr. Bell.—If you will permit me, Mr. Chairman, to write to you, I will look up the record of the Shaw for twelve years. I am shouldful certain dast Mr. M'Der-

Mr. F. B. SMALL exymmed.

1000X. The CHARMAN,—Are you interested in agraculture in Poyntispass district, Mr. Bossil?—Xee.
12074 And in descript?—Lee. Up to a year or two-ago I sent my malk to Helland, and since then I had to step, as I could not per labour. I had to give up the 19805. You gave up the dairying meastey?—Yes, so a dairy, but we keep sows for our own use.
19826. You have council to be a seller of milk?—Yes.

10806. You have cented to me a must be as your locality of milk in your locality -Amongst the working classes there is, "get a sufficient quantity for their femilies. 10838. Is it because they cannot affect to buy it or is it because it is not available?—The farmers and their milk to Belfast wholesale and do not sell it by

1000. Do the farmers who coupley laborates give milk as a perquadite?...Tee, a certain quantity per day; but that would not be sufficient to keep the children

in a proper way.

1060. Do you think the humbler clustes in your dis-turb appreciate the value of milk as a food for their children—I do not think they know its value as well

1086L De used?—Yes. Does that are yout milk being more expreshe ored:...Yes.

10973. And if they did realise what execution value
it would be to nomish their shildren on, do you think
they would use more of N?...Yes. I believe they could

10803. Do you think that the fact that the demand from such people is somewhat fifth would interfere with the tende? We know that these people are somewith the trage? We many that some people as times to more afficial discumsissions than at others?— There would not be a uniform dominal. 19864. In yours a salrying district?—No, not dairy-g. We see too far sawy from the town. 19865. But you spoke of sunding milk to Belfaut?— 10666. Do others soud wilk to Belfrat from your dis-

10667. Do you know whether or not the Belfast Public Emith Authority has ever questioned the Public Health Authority has ever questioned the quality of the raffl from your district or the condition in which it was required?—They send their own largetors down to our district. 19868. Were they afforded facilities?-Yes, in all names.

10860. And this action on their part was not resouted?—I heard one or two farmers wondering why

soniedr—4 nears one or awe intraces were real received, they came, but otherwise they were well received, 19970. There was no hostile demonstration?—No. 19971. We had evidence that they were not always as well seasived in outside seems, even alose to Belfast, \* Subsequently, the wittiess stated that the name was Addresses, and that he lives within 15 miles of Poyntopues, On Armegh. 2 T 2

A statement of that kind is a descredit moth is wrong. A statement of that kind is a discredit on the Show, because it is one of the classes that we have been mant arrives to improve. We have spent neve need adds account to improve a fact of the angress deal of fine and money in improving that clear.

Witness.—There is neshing further from my nind than to finered what the Show is doing, because I think Mr. Bell named deny that I did all I could my-Mr. Rell.-No doobs.

Witness.—And to encourage the milk supply. I offered a gold modal, so I do not want to discredit the 10860 The CHAIRMAN (to Widness).-- What wented to convey, as I understand, was that a certain type of animal, which is correlate successful as a ye or assume, which is noncommon safeteette as a ne winner at mry show, is not necessarily a very proprine wanter at any anow, is not reconsistly a very pro-friable animal to keep from the dairymen's peace of view 8.—That is what I wanted to convoy.

10861 .- I do not think you have conveyed more than that?-I know that Mr. Bell and Mr. Small and other a genst deal to ampeave the quality of the cow, and the position of the farmers of the locality. 10000 I moved have bad some experience of the

Thank you, Mr. M'Dramott, for your evidence. We see very much abliged to you.

as in your district. Are you familier with the pro-

complian.

1037-3. Has then been much logs by tuberculesse in your distript?—I have snyed had a good many cettle, and also some of my neighbours within the past free ten year I myself lead for which the past sweet.

10824. Were the animals shouthtered?-Ten 16875. By the order of the Local Authority?—No,

at by the "knocles."
1970, And you got me compensation?—No. I regist all these salemals; they were quote healthy at so term I bought them.
1987. They did not come from any particular dis-

They did not seemed to the constitution of the

more care ling the they take to serving the dis-ence?—One in less than two years, and the others shout three years, and they were very useful cores. 19881, Do you think they teek the Indontion one from another?—I do not know. They were stending in difformed phone on the byrr.

10886. Had they been subliving sympleon long prevants to the time you had then slaughtered?—
About six months. There was one wasting for about six months.

not know what was the matter, and I get a veterinary rgron. 19885. Dad he subject her to the test?—No, it was not necessary.

10884. Was the diagnosis confirmed by the perturner examination?—Yes. There were there others

that showed some symptoms.

10665, You had a high death-rate amongst your 18665. Now had a high death-rate account your cittle?—Yes. 19866. How many cows did you keep?—Twenty-five. 19866. How many cows did you keep?—Twenty-five. 19866. They had not been expected in any way, and were tested in the ordinary way?—Yes, and ded in

wice termen in the commany was, the ordinary way. 10887, Had any of your neighbourn a similarly un-plement experience?—There would be three that had the more experience. I think I was more unfortunate than the majority.

10888. Eight per cent, would be very high?—Yes
10880. You have considerable experience of dairy

Mr. F. B. SMALL .- 250h February, 1912.

1000. From the milt pilling prior of view?—Vorand the naming of steen steek will. I transmitshout thirty years ago my mother gitting are or swen inth cows and they wan crossed with aberborn balls, and I how of her putting 260 reloce for the ballsclature. The companies of the companies of the Vor-line was the color of the companies of the local What was the cld. Irish over—She had been been, and course had no huma stall. She was to trainfied one. Tarre was block amongst the red in the shott.

teamined cow. Tarte was most amongst the red in the 1960. Would store assimate of this it type sell very sell P-L would not buy a stere billion of this loud. 1960. While is over option as to the inhedoculous the companion of the companion of the companion of the principles. The companion of the companion of the 1960. Here you ever hip purebend shortherm yoursells—See, said Lincoln Bolds. They over set say we do not find them any better models the dark, out

below. I had on britten from Liencals Red kill, not 12605, We had another vitrous, who spoke well of the prodoce of the Liencals Red total. See upoke rateenly will of the prodoce and and that kiny were extended to the red of the red of the red of the case of the red of the red of the red of the case of the red of the red of the red of the 1860. We see that the red of the red of the 1860 the red of the red of the red of the 1860 the red of the red of the red of the 1860 the red of the red of the red of the 1860 the red of the red of the red of the 1860 the red of the red of the red of the 1860 the red of the red of the red of the 1860 the red of the red of the red of the 1860 the red of the red of the red of the red of the 1860 the red of the red of the red of the red of the 1860 the red of the 1860 the red of the 1860 the red of the

14000. What do you call a good emiloring while do see of suchange provides about the very respect to the conputation of the control of the conputation of the control of the control of the conputation of the control of the conlor of the control of the con-

arrow, with regard to the etons cattle of the country, do you think that they have improved or disimproved?

"—" this littedy this day to you do a improved a true of the little of the following and a second of the little of the following as a content of the little of the following as a does not a deep read to be a second of the little of the littl

tions your had before the Steint y?—Yes.

1007. I ruppee no receed was logic or standard of bytter this via time the old Ernin owe max m vegor 1—

1006. To what do you stimbule that—Yes.

1006. To what do you stimbule that—The ship—pole on many good young before as we used to have 10000. It was not you stimbule that—I had not you will be the ship of the young that you was not you will be the ship of your young before as we used to have 10000. It is here now malk seed to createness.

19010. Le faire sury milk sock to curspanses trees open feedlijky-ho. We gers takst up. There were no money in fe.

19711. When you believe to that when milk can be provided by the second of the sec

10013. In winter dailyring followed in your distinct.

—No, energy felson sure of we may not who and rule's to blother. They use braid to make province for a sign. Platford. They we braid to make province for a sign. Hotel, They have to supply a season of such province for the sign of the sign

where std., so the relevant concept, so you want to be compared to the control fill follow as the promise the promise the property of the property of the control fill follows and the control fill follows are so that the control follows are so that the co

2000. This has not the advantage of the course product of the day—" to expect of the day of th

posteroring is local forms.

IOSS, Lacky Demanda—Woodly upon think is observed to the converse of the converse

1900. Say free for a county/-L cartainly would 1900. The Chuntant—The major purpose is whiten or not you would think that more effective discounter-flow would not be entered out if the ventrancy assumed was cottonly free from boil influence of my lately—II force better the most influence of my lately—II force better the most influence of my lately—II force better the most influence of my lately in the lately would be force. Do you think that if mell is ment to Define the county of the lately would be for influenced, the residue should be labelled to the delicency action of that he lately out that he can be compared to the county of the lately actions of the lately action of that he lately out that he was not considered to the lately action of the lately actions of the lately action

frow. Do yes think that if with an sout to Bellind and it is dought to be subtracted, the restrict should be shall restrict, the restrict should be shall be supported by the property of the

sails to Mr. Thomas Borlish.

Mr. F. B. Small,-20th February, 1919.

19956. Do you think the retailer should have the right to get damages from the person who sold the milt to him?—Tes, that would do. MISST. Dr. Mocentan,-The excesses of the tebercalcan cows, were they destroyed?-Kelly, the slwagh-

our got them. 10008. Were your byres in compliance with the regulations 5-Yes. 10000 So that there is no deficiency of air space?— No. I have the bytes all concreted. One byre holds

10040, Have you much land?—About 110 acres, 10041, Is it well drawned?—It is. We have some mailten land that cannot be drained, it is too low. 10042. Mr. Witson,—You made a comment, speak. 10902. Mr. Wincox.—You made a comment, speak-ing of the first tolercolous cow, that the was ander superior for some months before she was diagnosed

19943. Would it not be a good plan, in your opinion, as soon as a farmer or cow-looper saw any suspenses graphoms, that their should be some unforcement put

before him to take the cow to the veterinary surgicon

19944 What industriest would you suggest as bring most likely to effect that object?—The full market value would be too much to expect for a cow in that state. I abould think two-disints of the market value

would be sefficient

1997, Would that be enficient to incise the man to
go to the veterinary kappener when the now only go to the verenary suspense work in our only showed slight symptoms. I do not think so. 1998, The farmer draws attention to a cow that is suspiccos, and in that case would you be in favour of group full compensation; but in a case where the verenary topoccie himself that the cow, that no com-position about to green. Would that be an indus-

10000, And not too expensive?-No. At the end of a free years he would not have many teleconloss cows-10390. Are there many of these old Irish cows left?

—No. Not that I know of.

10001. Not even in the outlying districts?—No. There as a shorthern mongrel.
10912. There is none in it?—Not that I know of.
10913. Mr. Casawan.—In tubervalues increasing?—I do not know that it it. I do not think it is.
10004. Your experience would rather indicate that it and of the work of the it.

BERSwas more unfortunate than anyone in the district. \$0000, How does the farmer usually employ his labouring corn?—By the year. \$0000, Does the practice exist of employing men by

10007. Is that going out?-No, it is coming more in because we cannot get workingmen to live in the busse. We are depending almost entirely on News

hiring market for our man. 19958. The practice of hiring men for a half-year is increasing?—It has not increased in number, but we have to reaces to that plan for getting men. 2222. In it a half-yearly hiring? A quarterly and balf-yearly hiring, but the half-year is the principal

10886. The CRAMMAN.—You are Veterinary Inspector 19080. The constant—total are veterilises; assessment to the Armagh Country Countril and to the Burnel and Urban Councils of Astrongh?—I can, str. 19086. There are a good number of oreameries in this distinct?—Tot, a lot.
19080. Are all the applican to the overanery regulated?—They are not. They are finglificed by the

10388 The application of the Order to their premium?-Yes. 10000 Do the oversione continue to remove mile from the farmers whose defron are not registered and are untemporared...They do

10360. Supposing a man is with you for one halfyear, and he is not going to stop, het has hired with another man-has that occurred?—Yes. anomer man—has that occurred r—ne.
10001. That man will usually get milk?—He is besided in the farmer's bosse.
10000. I was thriking of marmed man?—They do n the termor's boats.

I was thinking of married man?—They do
Men with the cottages are engaged by the

16663. You do not have a system of married men engaging by the balf-year?—No, not as a rule. Access, on that once a mean as married in dots not change his cothage.—He changes his cothage. 19938 But that is not done if he is bring in a Unnum cottage?—We have upt them a careferen. The first one is up only about three years. 19998, Take the married man, who is a labourer on the

furns, not the married man, who is not become on the farm, not the practice that he gets malk?—It is as a rule. I give my non malk always. It is part of these pages. Does a man with a hig family get more than a man with a small insuly?—No. They get about a

a man with a small instity—no. 1407 go: "exceeding of mile." In a section point of mile. In a section point of highlights of mile from the mile of mile from the mile of mile from that I have to that we yet for I suppose I though I. 16000. Do you taken that I stronges us a role for mile great the disposance I suppose for the mile great the disposance I suppose from the mile from the mile for t

pare pits some milks—Tex, both software at all the first the pits of the pits it is the country. 1076. These English and Scotch dealers are more now to this country for outile?-I don't know that the shippernts are mercusing. H075. If they were, what would you my 9-That we

10075. Would you not say that our esiths were improved Ne.

10076; Will be the dealers some now more than
10076; Will be the dealers some now more than
10076; Will be the more rolls wasted than twenty
year say, both in England, Southed and Ireland,
10778. The dealers do come over?—Yes. 10978, And the price is going up?-Yes, because

they are scarce.

10000. You can get loss good cows in the market—
that is the superior cow5—Yes. 10081. If your segument is correct, the price ought to be going down?—You are taking me up wrong. The medium class cow, I believe, is a far better commercial cow for the celifour little framer than the harb-class

cow, which sells better across the water 10362. Why does she sell britte?—She has a fine appearance. They fetten off this cow when she is my. 18963. I do not think that argument shows that the cown are getting infernor?—There are less good

10664. Then the cown as a whole must be getting interior?—I believe they are, and it is bender to get

## Mr. H. McCoccona., M.B.C.V.S., exercised.

persies amplying them who are not registered. They rather reacts other reveal or the dairy immeden making inquiries. 10001. That would indicate that the authorsies are not too agrapathets; with the desire of the local authority to improve the combiness under which the milk is supplied to them?—Whit they few most a the follow-off of the surely. It is not so much most a the folling-off of the supply. It is not so miss that they would not like to give information to the supporture. They are afreed of the supply falling off. 10992. It has been represented to the Commission 10900. And make no objection?—That is so, and it is very hard to find out from the cremmeries the 1996. And if the Order were universally soplied you thick it would lead to further restrictions?-I do not

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Mr. H. McCorogue.-20th February, 1912. thank so. I beard a complaint made that portice repolying sufficence under the Order, end that the repolar moting belief de not. 1999-6. It is exceptioned by people suffine suffic that the previous of the Order broad also apply to those who sell milk predects, and who at provider are not stable to this same inspection on they are Peru. 1999-6. Do you think that is a legitimete compliaint? 10996. You think the Onley should apply to all engaged in the doley industry?-I do.

10997. With regard to tenercolosis, have you had trouble in your district?...Not a lot. Immediately after the Tabercolosis Exhibition the general public then demonded that the suppliers should have a certi-

finite from a veterisary surpress, and the most or use milk vectors bud their called isstead.

10003, Mr. Wilkiss.—All over your area?—Fee. This mean supplying directly to the public, not those who supply to the createry. Even in the Milliary to the createry. Even in the Milliary to the control of the information of the suppliers and the suppliers are supplied by the control of the suppliers and any that I tested mywall all the suppliers above through. Armagh, 1 1000. The Curaness—What number of sown did you subject to the test?—Roughly, I would say about

1100. What properties reseted?—About 29 per sent. 11001. That was by no means a high average. What heppened to the reactors—was agy further action smuggled away.

11002. Were they rejected from the head?—Yes, because I refused to issue a certificate until they were commiss a crusses to mose a color of the yeleon.

11000. So that in order to preserve their besis in

11000. So that is order to preserve their besis in

11000. What became of them?—Some of them were

11000. What became of them?—Some of them were title, want occlusive to the control of the form publishy.

1006. They were bought and went into other milk herds where similar pressuttons were not taken?— THE is so.

1806. Does not that seem rather a one-aided way to every out a reform in the interest of public health... another allows these amunds to come into their milk

11007. Would you be in application of the Order?-I certainly would, all over the country.

1208. Do you think that the central of the inspection to personne.

11000. A person engaged in the same tende?—Yan.

11000. I one quite fellow; and don't you think it
would make the work of administration much pleasanter. that he had no mention except his own terminate to determine which should be done in every case?—Yes.

13011. Don't you think that that would enormously service the efficiency of the Order?—Yes, 19012. Have you had experience of the

have, siz.
18013. Do you think it has improved?—It has not. 11016. Have you formed any opinion as to the counse which have led up to this deterioration?—The general locality.

11016 Premium bulls?-Yes. 11017. Is it suggested that they have had sigurious effect on the make producing power of the dury herds of to-day?—The furness attribute it to that more or less, and what they object to must it not so must be seen used to must be seen used to must be premium helis, as the memor in which they are pampered or housed. They thus he still if they were reared in a more natural way, and not if they were reared in a more natural way, and not ir they were rearre in a more nation; way, and not legs in such a consistion, their offspring would be 11019. They think they are too artificially fed and too highly pampered?—That is so, siz.

1980. Do you think that that is a well-frauded belief?—I do, sir. I think it is a very sound doctrine. 1983. You think it is rather determined to the progeny of those named that they should be so highly ingeled?—I do not think that it would have a good 11042. You don't threak that is the best way in which they should be kept?-It as a well-known herping number in that condition is not truncable to having a healthy of severe to having a besettly of spains.

1992, They ere as a role not as poslito as if they were more naturally kep47—They are not.

1994. Ase there many promium balls kept in your ounty?—There are, are county?—There are, as.
11935. What percentage of the stock of Armach
would be the progray of premium helis—how in: 3;
thay cover the mode of the place undependent of other
hereday—The imment in our locality policonium them 11026. Are there many other cross-brod bulls her 11027. They have been largely drawn out of Arregic the introduction of the parmum bulls?—Yes, 11028. Don't you think that must necessarily be a advantage, because some of the others were of a pur type?—They are of a poor type.

11020. Still the farmer is of openion that the preduction of the premium bulls is responsible for the duction of the premium bulls is responsible for the degreeating of the milk yield?—Yes, They are all

right for store cattle, but there is a common complum right for side cases, on occu is a culture regarding the militing qualities.

11000. How you ever full it your duly to order the chargiter of a dinically inherenious crimal that you is I have no power whatever. 11031. Unless the disease is distinctly visible in the udder?-Even then I have no power except to code 11002. You lave no power to order the shoughter?-I have not.

11083. It has been done ommonly?—Yes, but I don't think I have any ponce.

11003. Do you think the provisions of the Order do not enable you to do that?—Yes, I think so. Is regard once smalls you to do that?—Yes, I think so. Is regard once in water the Public Heelik Order, but I do not 11015. In Article 15

17035. In Article 17, sub-section 2, cowe can be eloughtered on the cortificate of the veterizary surgent if their uddees are affected with tuberculous. The Sanitary Authority, on your certificate, can order the cleoghter 2.—That is when the wilders are affected. H036. And the local authority is compowered to pay other dienets, and that was the reason I made the inquirus.
11037. There is no question about the power scaling with the local authority to order the slaughter of such snimals. If you ever discovered a best with a triburgalous relder, you would have nedered the alsoghter arimals?—No, not frequently.

11009. The Causinus.—What has happened these town-have they continued to supply milk and disseminate discuss?-No. The cattle are record

enterminate discount. No. The calife are removed from the premises. It is only last week that I wanted to apply the tuberculin best to as seminal. Of course, I must get the consent of the owner. I interviewed him said he recold out. I must get the consent of the owner. I interviewed him and he would not allow the test. The result was 11040. And probably went into mother dury herd as a milk supplier?—Yes. 11041. Were you esteafed that she had teheroslosis?

11049. Have you followed any resisters to the shughter to occurring how for the test had been out-firmed? I find in all the rooting cases that I followed that the test was correct. 11049, Became we had evidence before us in Belfad And December of the systems before in in Helike-that four extracts had been subjected to the test, and two proved to be reacters and two were not reacters. There of the aximals were followed to the shouldner.

Mr. H. McCoovern .... 29th February, 1912.

one of the reasters termed out to be a sound besst large extent you could not rely upon the test. 1944. We have also had that evaluate before at 1104c. We have also had that evaluate before us, that in a very advanced either the application of the test gene no result?—That is right. 1104c. We were not led to behave that the cows I mentioned had reached such a stage as to reader the opplewious innecesors—The test is rather infriestle. If must be extraed out assentifically, 1104c. We very informed that at these cases I have

mentioned that everything was done in accordance with the condition left down by a quilified velocities; suggest. Have you ever found that an animal that reacted proved on sloughter to be a sound beneft.

have not.

11047. On the contrary, have you found an animal
to which the test had been applied and fulled to
reset?—I have. restrict DAVE, 11098. In that case was the disease in a very advanced stage?—Yes. 11019. Would you be in favour of lacensing dury-leepers?—I would be in favour of licensing the

promises.

IECO, Would you take into consideration the character of the person making the application for the literace?—I would, six. 1001. You would go forther than Because the premises, because you would take into counterwitton the proceal character of the applicant?—For. 11002. You would only becase for a limited period, and would withdraw the licence of the person was compared in a trade that was doubtful or suspicious?—I

would.

11033. Do you think that would impose any criton chatacle to carrying on the tender.—No doubt, under the present system of registration there are sheds in Joedfries on when, i. a make the market make he generated.

19954. Where you find it accessary to order structural alterations to be carried out, do you find that the owners of the byres are willing to co-operate with you?

11606. And you are not obliged to have recourse to ov externo mensures in order to ensure it?-I have had no extreme measures in my district. They have all carried out the matrodious I muy them, or are carrying them out.

Ilides, With regard to the habits of the nersons who

1800. With regard to the libits of the persons who are capaged in the milk trade, is any inspection imposed on them to see that they are clearly in the hardling of the milk?—Nothing except what I would draw their sitenation to myself when passing through INOT. In there a law inspector in your district?-

res, he as a sub-santiary officer.

1108. What portions of the dation under the Order
one he undertake?—He carries out the daticy inspection very well. He sees that the people are regardered.

1000. Does be give my neitherse to you in account the deep revisitions in it to Order are followed by the persons capaged in the trade—does be made any approximately and the trade—does be to the trade—does be trade to the trade trade to the trade trade trade to the trade tra condition?—Yes.

11000. With record to the militers?—There is very fittle inspection with parard to the millors.

11001. You think there is reason to believe that there is not too high a standard arrived at from the point of view of hygicar?—That is right, str. point of view on appears—arms is rigos, as-11002. Has any outbreak of spidenzic disease ever been timeed to the milk supply in your experience?— Yes. We had a very serious suthreak of typhoid fover in. I think, 1986, or 

11066. Had any effort been made at that time to restrict or forbid the sale of male that was managed restrict or forbid the sale of make that was suspected as the cause of the outbroak?—Yes,

as the owner of the currenty—Xen.
11095. And west is desired and the man not.
11099. The milk continued to be sold?—Those was
no attention poid to be milk until their wors a great
number of the people bud, and they then paid attention And it was reasonably will supply was responsible for the infection?—There was no doubt, because in the police barriels the milt was supplied by two separate persons. The men

receiving one derry's milk had the dimens, and the men receiving the other milk had not the discuss. I 1008. Did the local suppliedly prevent that person from weathing the milk while his duly was supported? —I cannot say for a fact. I examined the cover, and —I cannot say for a fact. I examined her cover, need I know that there were such atmosphis moissures put on that the man did not sell say milk store. I look. Was he a large cov-knoper5.—He had only eight cown. 12070. What would be the average berd of the damy

farmer in Armsoft?—It is very small.

11071. Twenty covet.—No. The largest supplies
(but we have would have about fifty-air cover. The

11072. Would the not and ten and tereive to bown, that is if he is living convenient to th.

11073. Would this six, ten or toolve now man in
the country supply milk to the creamery?—Yes, or even a men with one cow. you experience of a number remarker—I have.

11075. Do you know if they retail cells at these communicat—I am not certain, but I do not thin.

18076. Have you ever heard any complaint arged milk for demosite purposes?—No.

11007. Or that they refused to supply milk in small
quantities when asked by poor people?—No. Armagh, I take at?—No.
1309. Does your information enable you to any that
there is no district in the county in which a scientist enates?—Not to my knowledge.

1000. Tou would out think it probable that the wife of a labouring man with a limited income would be unable to poorers it for her family?—As far as my knowledge goes, they are able to procure any milk they

require.

I1081. Is milk as a food appreciated by the humbler elesses?—I do not think it is—not in the power dis-11082. I suppose you do not know whether there are epidemic diseases amongst the children, or whether they are suffering any ill affects from not being properly 11063. Would you be in favour of encoung the allocable Authority in a large ctudes of population like calls Authority in a large ctudes of population like

neurons to send out six officers into a thicknet to inspect the conflictual under which milk such in to the officers is preduced \$\text{\text{--}}\$ usually object to a by Empeter. \$1004. Supervising the work of a professional manifuge. 11085. That is perfectly reasonable. No one would netermine that, but what I would like to know is 11005. That is perfectly reasonable. No one wouse contemplate that, but what I would like by know is dilate-exposing, for enough, that a discuss hat become epidemic in Helfant, would you that it reason-oils; that the Public Houlth Authority of the city should have the right to soot their Medical Officer of Houlth hat the citedes from which the milk was sent, the average of assorbidints the conditions under for the purpose of oscerealising the conditions under which it was produced?—Ocreanity. 11085. You would have no objection to thirt?—No. 11089. Too would have no objection to thirt?—No. 11089. Linky EVERMEN—Too spoils of the creementy rowseques not being willing to tell you where their milk

11088. If they sell they are supposed to keep a neister aboving the names and addresses of those from whom they get their supply of male?-That applies to purrowers; but I do not know that are common in my district rotella milk.

district cotain max.

Ili091. Would you say that it would be advisable to have the lay-products of milk under the same regulations as now milk?—Exc. free my experience as to how it is gathered throughout the locality.

Ili000. You say in your commany of windows the chirp, satisface over meaning her beautiful and excessing over the chirp, satisface or examined overy means in the Urban.

District—Tes, But stored out on great for six months in the source and are not imperied?—In case is a consecutive to the property of the contract of the contract of the property of the surface. During the summer if I should dry any the buffer in During the summer if I should dry any the buffer of the contract of the buffer of the contract of the buffer when the cost are in, I would examine the But when they go

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Mr. H. McCoccoss.-- 20th Petrupry, 1912. 11000. I see there is a large number of goats kept ns use BOOMBY - 1 m. 1890 by the labourer 5—18 is a customer; thoug, and I think a fieldy after of some fermens that a gust being there has a certain rafforces in preventing disease. 11095. The Crumusy.-An autidote to disease?-

Yes. Our district is very subject to red woter, and at one time there was a very strong fad that if there was a goed naming over the grees it would be a pre-11996. Ledy Evenano.—It is supposed also that it is a prevention against abortion 5—Xos. 11007. What seek of goats are hapt—are they the common goats?—Yes, the common goats.
11000, And those has been no effect made to improve them by crossing them with the Angle-Nubisn or the

Toppening?-No. Hoovern.-Is tuberculous on the mercans with you? No. It is on the decrease. twice a year on all cuttle supplying milk direct to the mable "9-I have not, sin.

11101. You realise that it is a matter of milliona?-11101. You realize that it is a matter of millionar— Not in my district.

H109. Your own proceed experience showed that IP per cost, of the corn you custained issued, consequently if that stoke applied all over Ireland it would be a costly matter N—Ver. 19166. You did not take fraencial considerations into 11104. Mr. Canerama, -- Do you think that these 19

perfectional investedge do you tame turn and weet -1 do not turn so.

11106. Would it be at all surprising that note of them were giving tolercular milk?-I would not be surprised.

11107. Be you not think it is rather dustic torong
these cattle eat of the driry?—Yes, but you could not
tell how soon they will give tobrecher mile. An saintal is a very drastic measure, and you see you cannot get out of them. People will not bell there. The order

outng you gain as that you can assem out of the destinet. The equatry his out gain a mybling by short—No. III 100 Mr. Winnow,—Have you carned not she tuberculm test ever since?—No. Immediately after the Tuberculosis Exhibition it was cantomary when the militaren same to the door to sale, "Have you got your cowns tested?" If he and "No," they are, it, "We will cover tested?" If he mad "No," they mad, "We will not take nith from you takes you get a certificate from the Vertrany? Surgeon." That has fallen off some thin, even with the institutions.

13114: Mr. Corrents.—So that if you ceated the cover using you would find reselves "No. 11111. Thin was a flash to the pays—You.

11113. With regard to your work under the Order IIII.S. With regard to your next under the Uron's, have you anything to guide you is to the degree of according with which you make your entaninestien of the premises or which the animals are loop end the conditions under which the animals are loop end the conditions under which they are leight—No. In my opinion it rests entirely in the limits of the Veterinery opinion it rests entirely in the limits of the Veterinery

11113. Has there been any conference of Veterinary profession to arrive at some uniform standard?—Not to my knowledge. 11114. Do you think it is not nomble that one Voterinary Inspector might be twice as stringent as another!—That is so.

11115. Do you not think that a martals ?-It is onther

11116. Has nothing over been said to you by the Authorities employing you as to the standard of cloon-liness, and so forth, first you are to maintain?... No; the 11117. They leave it coursely to yourself? Yes. 11118. Do you think constiting should be done for the purpose of co-ordinating the ideas of the Velerinery Inspectors as to what would be the cendition that would be objectionable, and what would be allowed to

pass?-It would be very hard to get at that, because of you take the poor localities where the farmers have supplying to the public with twenty or any cown.

11110. Other people take that view, too, but at the cleanly with his milk as the more with a hundred?... That is so; but, as a rate, a man who but two conv has a family of his own, and they can stiend to them closely. The man with the large number of cown man employ men to look after them. He is supplying to

11120. But it does not follow that you cannot de scenetiang to re-ordinate your Meas as to the standard you would get up?—I admit they ought to be all brought up to one standard, but I think that will have to be done gradually.

11121. Have you yourself

11121. Have you yourself soon the conditions in other counties or other districted. I born. 11152. Have you seen other Veterinary Inspector farmer. In the first instance I would sak the see known to do little things that could be done by an

11120. But still you have power to make him th 11181. But still you neve power.

11194. You have that power?—Yes.

11195. You have that power?—Yes.

11185. Wouldn't not be well if the Vetermary posfession but home means of arranging as to have series
they would be at the contest?—It is left to our our

action had we are middler the Local Government.

Boniel inspection.

3118B. In there on appeal from you to the Lord Government Board P.—Nos Shit I ran aware of, 1112F. You say that you would here no eleption to the Medical Other of Belfust going to rapped place from which malk in being sent into the city, Word so have any objection to the Victoriany Emperior Single-Land.

that?—So.
11138. If he came to over-ride your decision?—So. 11120. Supposing, for example, the Belfast Authority suspected taberculosis coming from the mile from Arrangh, and they sout flown their Veterinary Inspector to inspect the herds, would you agree with that?-I would be willing that he should do so. 11130. Do you think it is possible to breed what you

might cell a dual purpose cow-a, one that would be a do not know how much milk the cow is giving. They do not keep records. They do not know whether it do not keep records. Ancy or bread from a now or fetten ber. 17132. If that were done you would be in favour of

continuing the present system of breeding a double 11102. Ber BERWART WOLKERCUSE,-- I suppose in the County Armegh there are one-or two-cowmen who 11188 Are those men regretered?—They are not all segistered. As many as the As many as the Dalry Inspector and my-

11134. Would the enforcing of the Order be a hard ship is the way of closing their places, and thus deput-ing the poor people of a supply of mile?—It would not

11185. Why not—are there larger dairies sufficiently convenient which are shouly under the probables of the Order?—Yes. I do not slight there is any enemity 11130. The Character.-What number of dairy costs do you think are supplying mile to the eresconds of 11137. That would be three theosens cown?—Yes, H1135. In it the custom to milk the cown for one sprind only, or are they kept as leng as they are prefit-shlor?—With the farmer they are kept. With the supplier to the Urban Disketed they are disposed of. 11139. The farmers have no messes of knowing county whether the cows are good malices or not unless records are kept?—No. 11140 And that mand corolly done?-Not except by 11141 Mr. Wilson .- To mate of this very large prim

a supplier to an inskitution.

HILL The CARLEST.—To a no secure make the children or far demonstrates, desiring to procure mile for children or far demonstrates, not deprived of it by making a procure in?—The only thing is that the owners of earths themselves are not inclined to keep records of milk for their own use. They are leading 11163. That is a very stupid policy?-It is. 11164. It is want of approxistion of the food value of mili?—Yea.

11145. So that a crowde will have to be presched pointing out to the general public the advantage of using will as a diet?—Yes, using pure milk as a diet.

there is no sensely in the district?-No. The Commission adjourned at 6.15 p.m. fell the following secondsy-

# TWENTY-FOURTH DAY .-- FRIDAY, 187 MARCH. 1912.

The Communicators resumed their Stillings at the Town Hall, Newry, at 11 a.m. Present -P. J. O'NEGL, Esc. (Chairman); Lady Everand; Miss Margaret McNegle; Sir STEWART WOODHOUSE, M.D.; ALEC. G. WILSON, Esq., and J. R. CAMPSELL, Esq., B.Sc. S. W. STRANCE, Esq., Scoretary,

#### Dr J. KEAN, s.r., examined.

tiltés. The Charman.—You are a member of the cony Urban Council, I understand, Dr. Kesn?—Yes. Newly Urean Counce, I unarrowner, IV. According to the 1997. And the 1997 of milks.—I think it is some of milks.—I think it is want of milks.—I think it is want of milks.—I think it is

er of many—a sums.

11250. Milk is not procurable in the poorer parts of
the term for people having money to buy?—That is
to—people who are constoant tayers of milk. In the
common there is a plantial supply. The cards po number there is a plentiful couply. The carts por round force a day, and in the winter time only in the meeting, and they have only a napply to suit their regular customers, and the purveyers of milk in form custom get milk in cole to the poor who may went curried get mile for olde to the poor was rany west as bullgeringworth, a geomyworth, a temperaporecth.

11111. The irregular customer is the one who finds the greatest difficulty in supplying his needs?—Yes.

11192. It is no necount of want of expetal on the

part of small pureyors, or is it on account of their mability to secure an adversate supply?—I think it is 11183. Hen thus an effect on the infant life of the 11135. Has thus an effect on the infant life of the nersyl-Year, I was no a honey extendy. Of course, the new particles of the control of the course of malls here. The modelson, as a rule, have for work in the nellie, because there is not rouse lower for the next. I new one of these stabilized full by a Testir of the course of the course of the course of the next of the course of the course of the women to work, and that the husboads are in some continuous models to got complexication. It is now

11155. And it must have rather an injurious effect HIDO. And it must have rather an improve create on the shiften—they see not properly looked after or receptive feat—No. This shift it spoke wheat had a face as dirty as a pot, and it was code. HIEO. Surely rearing a child in that condition must have an effect on the possibilities in other life?—I

would say so.

11157. And if epidemic disease beske qui in the town a child of that close would be rape. Blobs to fall a victim than a well-neorobed and healthy child?-Yes, 158. There are diseases to which children are of the improper feeding they get, each lable because of the improper as rickets?-Yes, and distribute, 11150. In the summer season?-Ten, and even in the winter.

11960. Would you stiribute that to an impure or deficient milk supply?—A deficient milk supply in the first place and suppoper feeding.

11161. Is condensed milk used at all as a substitute? 111td. Is conclused this used at an an amount of -Ins, there are some families who use it.

111th. Have you formed any opinion as to the marrie of condensed milk as a food?—I do not think it is a good lood. I think shiften reason to the malk would. good food. I term construct reaction and grow up well.

11168. Would not be likely to develop 111th Would not be many to develop a vigorous constitution?—No. Newry is practically kept up to about four mills, and it is practically all female labour

Meazo 11165. Because it is difficult to growthe for the unarrian demand that cause in a place like this?— That is so; but I notice in the winer the nilmon-have sufficient, and if they have to supply their caseponen with any mere they have to get it from another millemen.

another militanes.

11166. Have you say experience of the country district around 1—Yes, up around Armagh.

11167. Do you hald say public appetratent 1—No. 11169. Do you work arrough the people 1—Yes.

11169. Do you thank there is a nonrolly of milk in this country, districts around 1—My father was a district. pensary dorler up in Meich, and while there presently months up in Metgh, and while there was plenty of milk in the summer months, these was some in the winter. The people up there will not sell 11170. Even though they may have milk produced on their pounties they reduce to sell its in small quentings—Vex.

11171. For what reason?—Some superstition. Unless 11171. For what reason?—Some superstition. Unless they are settly in the leads they will not supply.—Yes, 11172. They binks it by unlessly—Yes, and a government of the supply.—Yes, and a government of the superstition of the superstition of the superstition. Waterweep present comes to any suffering from stopasth tends it was a former of the superstition. Yes, which is well of order mith dieds, they are, "it is very bould to get with, our down is dry, and it is swap had to get any "i, and the difficulty is to present a diet that

1174. I have not heard of that superstitum beforethe North?—I do not know. I only speak of the district with which I am (smills. districts with which I am fundists. III75 Hes any outbrack of thesase been traced to the suffit supply in your district—80. III70 So you have no implement experience shout-the suffit supply being a source of infloration—We had ne spitchers of hypholis, and there was a supplies about the suffit supply, but is was not proved. III77. Was it denoted as chooling as the could be, or III77. Was it denoted as chooling as the could be, or

111W. Was it tenced so electly as it commu-was it tenced to a certain point, and then also

Dr. J. Knaw .................. Merch. 1912.

became al incidity to get positive peor?—It was tenced as far as possible, but nothing could be found. 11178. Were the cows subjected to an examination by a veterinary importer?—Its, and mething could to try is vectoring impresers—res, and meaning count to formid words.

11179. Did the medical officer of the district make a resummation of those bandling the milk?—Yes, and the Local Government Board Medical Inspector, Dr. Brinn, was also down. 1180. Were any of the employees subjected to the

I do not know.

11181. You were not in charge of the invertigation 11182. Was the supply of milk from that suspected 11102. Was too uppey or mine rean that suspected sures suspended during the period that the investiga-cen was going firewed?—No. 11183. Would not that seem to be a live danger, and if it was descreted that the milk was the source of indection that it should not be disseminated?—It was

or inscorption that it which after or ensurantance are in was a sandareed definitely that it was a superior a world it to a little for the first and a superior with from that particular depot until the matter was cheered upt—This person supplies only all over the town, and has a great number of continuers, and the other was a great number of customers, and if occurred in one Bitle district of the town, or not the mile supply was the source of infection and Yes. 11186. So that it was even to doubt as to whether es. 11186, Miss McNEIL.—There was no cose outside

that small district?—No.
11187, The CHARRISO,—Though the vender was supplying milk to the people in different parts of the town there was no trackle distribute?— That is so. In some borses in which the outlinest occurred they were getting milk from two sources. Illiss, Lady Evenauxa.—Were both aurrone outside? Tes. As soon as the custonsk was notified all the employees were medically exemined and put on one tide.

supply was provided.

11:99, Miss McNarax,—For the dairy farm?—Tea,
11:90, The Crammax,—Was that done voluntarily 11190. The charman,—was that dobe expression of the by the owner of the farm, or on the suggestion of the medical authority?—At the suggestion of the Medical Officer of Health 11191. Lady Evenand—The employees were not dipoted to the Widal test?—They were not find I now of. Dr. O'Brien, the Local Government Board

Medical Impector, came down to investigate 11192. The CRASSMAN, - And mode a thorough examination?—Tes, and was nearly satisfied that the outbrak sould not be don to the milk from that dairy. 11198. Is the health of the milk-workers bad?—They suffer from anaexis suffer from somerons.

11394 Hes the bood they take snything to do with
that condition?—Tes. They are very form of tes,
marring, evening and right.

11395. Do you believe that if nulls were more plentiful. that they might use at an aubstitute for that rother questionable food they solution or?—Some mall-owners get up a distingueen, and tried to get the people to get dimens on the null premises; but they could not

11996, Lody Evenano, De they pay for the meal provided in the mill "There would be a small charge 11197 The CHARGON,-The mill-owners the accommendation with a view to baring their employees better fed and better nourished?—Yes, Three now that the coplayers were in bad health. 11199. Hos that effort collapsed?--Very nearly, some mills they still have breakfast. A youngeter came to me rescutly and and that he had not a good

copetite. I select him what he med to est, and he said be used to have been before he left home in the morning, and for breekinst had three bowls of purrienand that ofter that he had a cup of ten and three cuts of herod and better. 11193 And he was still nervous about his appetite?

11300. That shows that he was a careful hoy--at 1190). You believe that, taking them as a whole, the mill bends are insufficiently nationaled for the labour in which they are employed?—Yes, and especially the morried wearen. 11902. I see you make allower in your summary of evaluage to the fact that the methors become practicely descriptiv—Les. They work in the mile too long, and hump back at the first moment after they confinement. 11303. They are constrained to that owing to their financial position?—Yes. 11304. And though they may have husbands ready to work. the consumpt conditions are such that wecensest get sufficient employments—Yes.

11333. Do you think that these people value myle as
a food of its proper worth—I do not think that they
do, although I think they are getting a little most
clincated about mills dean they were. I do not tohen

that they still understand the value or mile.

11206 And that the shafters get other foot has smooth's?—Yes. From the very carffest age the shilken 11207. Which, of course, is very injurious?—Very, There are a good many children suffering about Neary sere see a good many callitren concerns about Newly can tehercolosis of the bones and joints. 11208, And you staribute some of these maledias a the improper food on which they are resert in the earliest years of their lives?—Yes. 12209. What quantity of milk do you think wold be taken into the family of a workingman earning.ss;

med by these families?—It is not.

11211. As a matter of fast, the majority of these INUL As a matter of 1848, the majority of their people use milk as Bittle more them a constituent is colour tea?—Yes. A good many of them make bred with sods. In the winter time the butternik is sense, and then the people make threat with water and soon, and I do not think that that is very good and seeds, and a up non same was take to the post of the lilical Lady Evenants.—Would you say it would be botter than white belor's bread?—You; but it has not the same nouralment as bread made from buttermik. 11213, The Caupean,-World you consider a s publishes expansione of public money to cheapen the price of malk in order to misso the working-due price of milk in order to misses the working-dust population to use it more frequently for their farallist —Yes, That is what I would like to see—some my of regulating the supply of milk so as to have it

sheavy available. 11314. And at a fixed price?—Yes. didges of public meansy from whatever source obtained? mortality seeded he reduced use ways a warm manufacture and the first seed of the reduced to the reduced and the fight species the development of tohercuboits—Yes. You would be getting at the primary root of the cell, by getting the cholbran strong and healthy in that

infinory.

11217 Of course, if a child is improperly fed, and
grows up wouldly, iff where is a hereditary tradingry to
tobercousis in the family it will be more failto the disease than a person properly developed?—That 15 for the control of control of the control of

rid of the discuss. 11219. Of course, a sunstorous is veloable in pre-enting the spread of infection amongst healthy venting the spread of infection members of the community !-- Yes. 11990. But you would prefer beginning with the child and having at properly accessived from its enciron infames, and fed on suitable food during the years its development?—Tes, and the mother side. With regard to senations, I do not think that they keep the

11921. Miss McNgul .- They street the disease from being descrimanted asserges other members of the femals?—Most scretoin will not here a national when be gets into a very bed start.

higher and a very seasons.—In the ceresterium he ought to have bermed hygiene sufficiently not to be a source of infection to others?—Yes; but of course, in a good

12185. I think this is rather a distribute points.

In most case in him been provide.

So in the case in him been provide.

So in the case in the case in the case is the case in the case

11926. As is to this tenser in occurring to apply in 11926, it could not all used by the poor peoplytys. I recommend cone ingrely. 11920, to the people who have triscertisin approcate from indecisions that dismoss self—I believe that make the people who have triscertisin approcate from indecisions that dismoss self—I believe that the people is the people have come by consideration to Newsy believe to people have come by a the people of the people have come by the people of the people of the people have come by the tribute of the people have come by the people of the people of the people of the people of the tribute of the people of the people of the people of the tribute of the people of the people of the people of the people distinct. I can then could indecide the

theoretical at least fourly intention. Before that CIRC III at 10 (100 at 100 a

is absolutely no work in the rails for the room V-Very 1918.

1920 — The recomme benefit that the machine of sensition 1920 in a feet there is a sensition of the relation and work in the mallit — Illigible. Has it come under your notice that the multi-Illigible. Has it come under your notice that the multi-Illigible. Has it come under your notice that the multi-Illigible is that the same population. It have soon multi-that to make population population is not the same population. It have soon multi-that to make pools.

1920 — The Proof and Pergy Improving post reservation that these marginary.

Drug Bugseler goes resert into this surgelifts. Are then ever surgices and in by the cruse of 15th. Are then ever surgices and in by the cruse of the control of the event should use a belief a still which she had a vector should use a belief a still which she had a vector should be a belief to still which she had a vector should be a belief to still which she had a vector should be a she had been should be in the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the control of the latest sheet and the control of the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the latest sheet and the control of the control of the control of the latest sheet and the control of the control of the control of the latest sheet and the control of the control of the control of the latest sheet and the control of the control of the control of the latest sheet and the control of the control of the control of the latest sheet and the control of the control

Imposter?—I hereight it to the Council.

11344. We not the offende pressoried for filest const'
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went must day, but did not associate.

11349, Surviy, be could have been must associated.

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which was the surright was not have in a logal way,
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faster mother!—The load was of a poor quality. The
faster mothers are not made to the surright way of the
faster mothers.—The load was of a poor quality. The

way wisky mater.

1947. De you think if depots were utshilabed, the
1947. De you think if depots were utshilabed, the
1948. He was been sketched by the Winner's Knizenel
1949. He was been strend at general down in Irisade. At
1949. He was peer round the town and regular suffer at
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11946. These mild depote are paying their way. It is a comparable to the comparable to the comparable to the ledite expanies the depote and the control to the comparable to t

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e occupa to knop it in the
spired in that now they a
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nece suitable for the week Of course, then are a few me surgicyed or modernine.

11260. But they would be a very small proportion of the course of the cours

gove it. Mr. Comeans.—Are you talking of the 1985 in the multi—Tax. 1985 in the multi—Tax. 1985 in the multi—Tax. 1985 in the multi-apply to the scookbern"—I consist says. 11255, \$8, Semmarr Wesconsus.—Are must of the lensis corders surbten or gelds—The must of them are girls, but there are a pood many of them subbors. 1257, Are the most of the children surved by Seitz subbors.—To: 11255, The girst majority —The great majority see

1138, 70 area magenty—The green support security are more by their medical whose matters that go not be supported by the support of the support of the supported by the processing support of the support

in 1986. Do you think the looping of goals in 1986. To you think the looping of goals in 1986. The loop of the loo

the country it has been dose.

1270, Weed or regard 1 there has been been a large of the second of t

A tary, than standish.—Weeks you approve to the form of the pool of the pool of colliers, the sides of colliers, the sides of the pool of the pool of colliers, the sides are we found it as a supply of separated rolls would be of us to people who search get a sufficient reply of pure mills—less 1274, Be you think that here is any damper of the sides of the sides of the search of the sides of t

treed with all milk.

11171. Do you define thise if people such as you supplied of could obtain a supply of separated milk the this elder eldition; it would be a useful addition to their food at a charp mate?—Yes

11377, And they could elderwitte the risk in a charp form.—Yes. I believe that would be a great way to belo the poor people.

1387. Lady Eventum.—In it year spenies that all the by-resolute of milk should be under the same regulations as now fulfille—IV. Surface the same regulations are supported by the surface of the same plants of the surface of the surface of the surface tiny used to be. In the country districts they used to map it in the room where they shaply that I believe that now that year coming to consider it is better to have a waspeake place. They are getting educated Mr. Winama Chosen committed.

11278. The CRAIMAN.—You see the Town Clerk of Newty.5—Yes. 12279. And the executive sentiary officer and regastrar of dirines?—Yes. 11250. Have you say officer, other than your velementy suspecter, to look after the dairies and millshops of the bount.—We have a dairy inspector, who

where of the levers!—We have a dairy important was a many an anomalous of the control of the con

he insists on weaken overers, and if skees is anything as the slope which regists being be unit; as any we he founts on it being removed to a different part of the contract of the state of the contract of t

the rederively languater. These two parties gave up the tends and lift the distinct altogether. 11987, Were the absentions demanded of such a character as to invertor in langua expenditures—were they of a very dynamic absencier?—No; that I (think these people hold an idea of getting cool of the million titled in the times. Whether you proscuped them or noth—Uses. 1100 afterentions maintain landship and extractions.

charage of premises which did not belong to the partner themselves.

12585, They had not any premains tensor in the 11595, And they shadned the sale of milksinguisher?—Xes.

11591. Were they largely in the tende?—Ney, in a very until way—two or share town each, 11592. Were they largely in the tende?—Ney, in a

which the state whether the stage is the support to the stage in the support to the stage in the support of the stage is the stage in t

hadoos to pop, oring to the high petas of fooding sixfle sold the difficulty of spiritup labors.

11984. Notwithstanding the fast that we have from the population to inhabitationly stated, at the street oppulation to inhabitationly stated, at the street convert—Those are people who are supposed in the first control of the state of the street of the people of the street, and some works they shall be street to the street of the street of the stand short the correct. They are not the short of one to ask clump of colds. They have ordering short 1293, Has your vectorary imposite ever records as

your Council that be discovered cows that were

Histo Has he over saled for authority to burserroul singlified that he suspended of being before color?—Mo.

1297. Size the Act once wint operation has any application owns before the Council?—Mo.

1297. Size the Act once wint operation has any application of the Council?—Mo.

1290. The color of the Council?—Who council has do peoply herofilly for cells are close to their below as to the council of the color of the color of the property protocol.

1290. Does your days Topologic incide on the

gotting goods to keep date bands woulded out in 1996 Data your flasty reported in cost on the 1996 Data your flasty your flast for the 1996 Data your flasty your flast flast flast in the cash of the flast in the cash of the flast flast in the cash of the flast fla

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organics.

13866 Man. McNrinz.—Way it applied to the

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1307, The Concessor —Tongs the applied to the

-Mo. The needed offers fill only think is nonemery.

1307, The Concessor —Tongs the applied to the

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was I may say, almost ecohourely supplied by the

real fill of the three wides good for the fill of the

no different part the three wides good for the fill organic.

from a different source; but against that, in the outcome of every pair you have a few case.

1806. Reproduc outbrooks 7-Yes.

1809. What directables did the outbrook assume 7-Yes, one case of a little outbrook of the control of th

1810. There was no hald case?—Yes, one case of a year man who had been in very bod brake?

state from the hald been in very bod brake?

at the front?—No. We had no power tribuse to delay at the front?—No. We had no power tribuses we could be a carried action from the Medical Officer of Health, had a very large number of customers, not at the time force were early borders cases, and that there were early so that the properties of the second control of the control of t

1151E. I understand your velorinery inspector is usual. Yes. He saked me to spatiague for bit alessees. He in its Decayal for the Department of Agentalium.

1151E. I see in his summary of ovidence be says that he would be in favour of having power to savised ourspoontition for animals shupphered. Yes.

that he would be in fayour of having power to avoid componention for animals shoughtered-Nes. IBBs. I presume he means to be rother disease of any part of the body as well as the uddent—Les. IBBS. Have any prescribens ever been undertoken, so far as you know, so occurs chemitment—Not in the udwas district. Mr. Mask, our selementy mapseter,

is point agencies. Mr. State, our searching mapsoon. III, 316, West of borning ornleepen?—I would, you be in favour of borning ornleepen?—I would, you have not not much the
IIII And you do it is not born or much the
IIII And you do it is not to the character of the
IIII And you do it is not to the character of the
IIII And IIIII And IIII And IIII And IIII And IIII And IIII And IIII And IIIII And IIII And III And II

11118. Do you thank their there is a survival officially on the post of the good to protone sufficient. If the post of the good to protone sufficient he poor have good difficulty in grituag suffi. It will be post have good difficulty in grituag suffi. It cruckes from illiformation could be been been expected quartery they require, and the boar occupied to the sufficient of read. Unless usuall porreport provide them always to no commerciate between the militaries and the cou-

is no memorate because we we are a consistent with a consistent wi

where to go far their milk, and I think the milkness would got errors. Filling such as most of each light man and the such as the such as the each light man and the such as the such as the would enable up to do no; but we should not be the would enable up to do no; but we should not be the record of the such as well as a peper expenditure of public manay?—Yes, because the went of a proper milk surgety ouight lead to a surloss arbitrate.

rath supply output lead to a serious outbreak or infection disease.

11823. The case I think you see making out is an absolute particulation for the experience of public money?—It is a sort of suspense.

11822. Lark Evanana—I take it from your oridence just given that you think that it would be very demanded in milk depose to the be native for KorryY—demanded in milk depose could be native for KorryY—

1983. Where the poor could go and buy their milk?— Yes.

1994. Do you know of much depote having been established by private enterprise?—I have it stated at this Inquiry. 11223. We have bed oridence that those depth are greatered by well/hand I am of opinion that it is not opinion that it is not opinion that it day were one on proper lines.

11226. In Name there is n depth in existence, and the St. Vincent de Paul Bousty buy circlet, each representing a part of mills, and also the Women's Namental Reliability of the Name the Name of Name o

souting a pair of mail, and sho the Wome's Noboth could be a good time.

11957. We had evidence in Dubbe from a doctor would be a good time.

11957. We had evidence in Dubbe from a doctor was commanded for priviling mall for the shiften of the shiften of the spot by private coloragine, and is in owe substituted to be poor by private coloragine, and is in owe substituted to be a proper to the contract of the poor to be confirmed to the poor to be confirmed to the contract of the contract of

LIGHT, And this schools in Selficious best bed in DESTRUCTION, and the Selficious Selficious Selficious Selficious DESTRUCTION, and Selficious Selficious Selficious Selficious Selficious DESTRUCTION, and Selficious Se

procession. In the case of battermile they have had been processions.

1389, What flars were imposed?—IX. and costs.

1389. To CREMENT—There is no kede or promotion for policemen for secting forward samples of sweet mile—for shall also take samples, and we have not from the water milk to be below the legal

11802. You have no case where a sample of sweet mile was certified below the logal standard?—Not for serve, youe. 11803. Lady Evenano.—And do they go to the small variable who supply the poor?—They do 11834. Sg Synwary Woodgoven.—Are these samples

11334. See Separate Woodscores.—Are those samples sent to Dublin size to Sir Charles Cameron—the samples taken by your impector?—Yes. He is the majorit for the county.

11335 Mr. Wilson—You have no systematic

HIMO Repectally for tuberculosis?—Up to the present we have end, because there was no bacteriologue for the course. County Down Course, County has now appointed Perlissor Wilson, and I have no doubt we offi swell of this services.

HAMO, World you be in favour of Econology drivers premises?—I would:

11887. Would you be in favour of licensing dairy premises—I would. 11888 And taking the license from any man who was not keeping his premises in purpor conditions— Yes.

11399. Or effing milk in a sentedoutory tastor—Yes, 11394. At regords year reference as to the milk depos, at 1394. At regords year reference, at the first property, be at the resulting generally, be at the resulting property. But the resulting property is the sentence of the resulting property of the sentence of the

HML Year point is that private enterprise is distrible, and that there is an opening the Hilf-Yea. Islam. But fitting private enterprise you think that the commercial threat dop in —Yea. That is no the same way that the intern authority rous the public sheldow.

11933. Mr. Castrenz, —What excetly is your appointment to the Urben Conneills—I are Town Cipic of the Borough of Newry, and the Encentive Scentary Officer, and Begister of dairins and comback.

11944. An Exceptive Sentlary Officer do you in any way tooch the milk question!—Of concer we do:

Mr. WILLIAM CROSS-,-1st March, 1913.

11345. I mean in that coperity?-When cause of infections disease are reported to me I make inquires angelists change are reported to the a trace apparent as to the source of the matter under the netter of the Medical Difficers of Health, and have fastler inquires 11890. Do you go into the country for that purpose?

---Xes. In the particular case of which I have speken, where the suspecson attached to a certain duty, the

dairy was in the country.

11307. Who were the veterinery officer in the country.—The same veterinary officer as acts for the urban district. This simplifies mattern a good deal.

11308. It is the one veterinary officer?—Ton. 11349. With rested to your position as registers of darras and covaheda, do you register them each year?

-Yea The new we werk in this. At the beginning

11350. In it pert of your duty to go to the keepers of the cown and exemine their cown?—No, it is not my duty to see the cuttle. That would be the veterinary inspector's and the dairy inspector's may.
11351. Who is the dairy impector?—James Consolly.

vetermery inspector in his impections, and if any 11888. The driry impector has no power to do say than?-He would report to me and I would send politore 11054. You and the sub-easitivey officer have power to serve noisees upon the farmers?—Yes. 11866. And who sets up the standard of right and wrong—you or the sub-amittary officer?—In merry all

11356. It is the veterinary inspector who sets up 11307. Has the Council as a body given him any instructions with regard to that?—No. They gave him

a copy of the Order and any leaflets that have been lound by the Loral Covernance Board on the Depart. ment of Agriculture.

11339, And let him set up his own standard?—Yes,

11359, You talk about surprise visits. Are not all
inspections surprise visits?—Res, all these me surprise
visits. The statement about surprise yeath was made, evidence.

11300. Yes. With report to bettermilk, is that very much used in Newsy?—If it evals be precured it would

ment of Agriculture.

procure at present. 11361, When does it come from?—From the resul

11962. In those buttermilk here?—Yes. 11362, as these persons here - to.

11363. And are the persons who chose there besties beinging in botter and buttermilk?—All the person who make butter do not bring in their buttermilk is Newey; in fact, only a few of them do so 11364. Is it sold in the streets out of the chams?..

11365. Do wan know what perco is changed for it?-Do you know the standard for the quality of

11507. Do you know the standard for pure milk5-1 think it is 3.2 per cent, of latter fet. 11868. It is there per cent of butter fat; but you do not know the standard of buttermilk?—No.
11869. And the buttermillers, are not subsected to any difficulties in regard to the corrying on of their 11870. Does my separated milk come into the town?

—1 or not take by Exmann.—Is it the case that all the reports of the veterinary impactor have to be forwised through the medical effects—No. The veterang impactor supplies to the Controll, as their monthly meeting, a report of the permises he has improved during the preceding months and makes recommended.

of an outbreak of amoretoon discuss.

11873, Is it were operated that all the by-products of milk should be subject to the same regulations as pre milk?-I think to 11383. And if it did entail a certain amount of expe-

# Witter carmened.

11374. The CHARLESS.-You are Tressurer of the Newry Agricultural Show?—You. 11575. Are you interested in agriculture?—Not very much directly 11276. Are you a resident in the town?—Xee, for 11377. Does your knowledge easible you to state whether or not the milk supply of Newry is more grazions to-day then it was ten or twelve years ago?a some in as sets generous.

11878. Do you believe that a difficulty exists in properting mile in the case of poor people who have money to huy?—Well, I do not think so. 11879. You do not think the small boundations would have any difficulty in getting milk if they had the money to buy?—We have less distribution of milk than there was formerly, but I think the men with money one buy a reasonably full supply. 11380. We all know that the working classes are not make their purchases, and for Shev

might, sir.

reasons the boundeeper may be from home when the milk-ont gase round, and later in the day it in dis-severed that there is no milk in the bonse. Our such a person go out into the street and bars into a shop where milk would be secured?... That is the weak point. There is a difficulty there. 1186. Have you shought of any scheme whereby that differely would be obvioled?—I have an idea that a better provision might be made for the distribution by placing, my, a general mill-slop in cach ward. 11302. Would you suggest that if a commercial cate price did not carry out that idea, it would be the dut

11394. You believe that the shildren of the poor an 11394. Too believe that the inharm of the poor web getting a software quantity of milk free, which is desirable to develop them sate healthy men as women 1. I knew they are not. They are weng substitutes, such as confermed milk, and they are leaved. and golden syrup, and " uretty much, but not now 11385. These are not ideal foods for children?-No. 11386. It has been suggested to us that the managinal authority might themselves undertake the establishment of depols for the distribution of crifs. Do you think the condition of Newry is sufficiently

fiture you think it would be a proper classe on public funds?—I think it in most desirable that the por should have an ample supply of mile, which I am not

satisfied they are getting at present

neats at the present time to warrant that being door?

—I havely think so. I time it could be done better
by private enterprise then under the Council. 11387. Private coterprise has not done so up to the 11588. Do you think that those in charge of the

children of the working classes appreciate the value of nofit as a food for their children?—I do not believe um so a soul for their omstrony—1 do not believe ust they do. 11389. And of they did they would make a better affect There are young mothers and wives of inhousing man who do not study the hamping up of children, and the real nutritions food which can only be found in malt 11399. And this must have an injurious effect on the whole of the community at lange?—Yea, decidedly. 18398. And white your public authorities never because to provide hardful accommodation and medical heatists to prevent normal second-south-aid and naving for the poor when they are III, it seems to be thought as notice as movement to try and prevent the Illineaus from which these unfortunite people saffer, and which are directly consequent on the freed on which they are benegit up?—You refer

11392. I am speaking of all Public Health Authorities. The public raind has become advanted to warrant the expenditure of public money in having disand named for hospitals; but apparently no one has

1200. Newry has not a double dose of original sin is that respect. I want your opinion as an intelligent occupier of the community. Do you not think it would be a good thene if an effort was made to bring up the name superstion in a healthy condition?-Yes,

11394. And if this is a necessity in the ordinary comvanifies it seems to be a still more burning one been, where the mothers of very young shiften leave them of home and go into the mills!—You. That is a very of him and go into the minist—ter. Then me every serious matter indeed, IRSG And these children do not get the maternal over that they have a right to expect et a very tender age—They are very often left in charge of young children who are incompetent to mind there. I can

of a little garl with a body in her arms 11396. And perhaps not very well clothed "-Peorly clad, and brying to answe the children by singing to them, and not strong enough to carry them. 11997. A teaching sight indeed. Have you ony experience of mill-worksm?—No, I compat say I have.

reperiment to min-sources—Au., I common say I mive. 11998. We were sold by a fermour witness that so either was made by the mill-owners, whith was much to their recisil, to people their employees with a wholetome meal, at the mill, but owing to want of co-persistion on the part of the workers it has treater downs—It has not broken down at Bassbrook, where the owners of the mill provide for a meal at a comical 11399. But so far an Newry malls are o on rather aired it has broken down there?—I do not shor what family it has recent cown inner—1 to 100. Harow what the proteller in in Newry, 11400. World you not think it a very judicious more-ment on the part of the millio-women, and distinctly humasilarins, to males such provision?—Yes. It is done in Bestrook. It would be a step in the right.

direction.

11493. Lady Evenano.—Is that must provided by the
Bessbesok Company?—Yes; but it is not given entirely
gratifically. Mr. Richberlson, the owner of the Beasbook Spinning Mill, does not make it a postable

IL408. The CRAIMAN.—It is only the price of the steries wholerals he observed?—Yes. The company materials wholesale he oberges?—Yes

1503 It seems a most benevolent undertaking, and 11404, Lady Evenano -- Is there a large scopply of butterspik comes into Newsy?-- I do not think the 11400. We have had evalence shout there being pro

spends from a such aire book invariance. I con-ider there is a necessity for a certain proportion of water to be added for churaling purposes. 11406. What is the legal standard for buttermilk?—I 11407. Do the peer use buttermilk for baking—do they have their own her al?—Some do. The bakers use

11468. Do you find there is a big increase in the sale of below's whole broad?—Yes. I think the sale gener-11400. Do you think that the use of brown broad is going down?—It has not been very popular. 11410. I mean the whole med bread?--- It has not

were five exhibited and four prizes were given. get 25 from the Department.

11:12. What points do you insist upon as being respectant for that close?—Quality and questify of 11418. Produced during the days of the Show?-

been very popular in this distinct. I do not think it has gone down. So for se my experience is concerned,

25 has good up.
11412. Mr. Wilson.—I would like you would give us 11411. Mr. Winger.—I would like you would give us an idea of the policy of the Newsy Agricultural Show with regard to the encouragement of dairy cuttle?—It

11418. Pronoun turning has easy or as sever-Milbed in the Show yards.

11414. That would have the possibility of getting a cow that gives an common flow of melt for a short time and goes day very scool—I cannot say what point the sodies would give in that direction. I expect they would pulge from the appearance of the other of the

would yadge from the appearance of the udder of the quantity of the milk that is given, 11616. Have you thought over at all of the posmility of giving the dairy new prizes on the basis of her records during the location period or for the twelve months?—The Show Committee is going to go on 11416 Do I understand that the Show may age an officer to asspect the records of the farmers of neighbourhood and have a sheek on the indivi-

officer of the Denortment?... Yes. 11418. So for your purpose you would take the milk records kept by the farmers and obsched by the Depart. ment, and the glos the appearance of a cov, would be the heads of giving a princ?—Yea.

14419. Mr. CHERRELL,—Have you decreased bow rook you would give for milk and have much for 11450. Your committee has not discussed that?-If do not think there is any please of this question which

11431. Do you know if that phase was discussed?-11422. How often do they mift those cows that come in to the Shew?—Once. 11435. It's to one-day Show?—Tes. 11436. Do they stock them the night before?—I can

11425. You are well acquainted with spriculture?-11426. Have you followed at all the question of the relations between the labourer and the former in the

relations between the labourer and the normer in the North of Irohand; that is to say, the relations between them in regards the system of hiring and housing— what used to be the custom with regard to that?—I fired for the years as water boys and gives aware even fixed for the years on hell/year, as the case may be. 11437. What about the married man?—The morried more, as a rule, find becars in their pertucular safety bourboods, prehaps with the immen with whose they

11428 And does the cottage in which they live belong to the former?—In some cases they do, end in 11429. In the cases where they do not, who owns the cottage?—I do not know. I have not any detailed McNunt.-Has there ever been any scheme, in addition to their which has been ouried out

in Institution, we remain material reverent—a mean worker who are maining mathers—to here their children sees from . In certain mills on the Continuation and America, where a fairly large propulsion of the couployees are married women sourcing their children, majories are provided, and in the nature of reflection. Valid: riscourage arminists feeding, but may provide uniteries. Be you how if such a scheme has cere-been feind in the mills in the North of Delend\*...I do not leave of any such sobeme being in operation. 11481. Has it ever been considered?...I do not think

11482. Do you think that scheme would be advis-

#### Mr. Witanes B. Beta examined.

Hoth The Charmen.—You are Clark of the Newry Rural District Council?—You, of Councils No. 1 and No. 2, and of Newry Unice. o, T, thin it Newry Unice. 11434. You are also intressed in the Newry Agricul-ral Show?--Yes. I have been one of the hon.

11600. We have learned indirectly, perhaps rather than directly, what stops as taken by the Burst Council to put the Burses and Counted forder into operation. In three any infertosition you can give us that has not already been solutainty? We have been moremen mask you employ a veterinary Inspected to make an inspection of both districts, and that the por-reason of the Order are fairly well administrated?—In the Newry No. 2 Dashred—that is the dashrid in which the Whilecome Createrry is situated—we have 22° engated on hospecs; that is the Central Armsigh

portion of our district.

11697. How many cows would that represent?—C so average they would have about four cows such. W other large defrice in that district. 11488, Are they realply suppliers to the Whoteeress Creamery 5-A smell portion are. 13439. What becomes of the mile of the

as 2d. a coast in winter and summer. They may have so so, a quest in winder and summer. They may have recently made a slight increase, but I have not heard of it. I know that the other dairies in the district selling the mill so cheep.

Hitte Is this subsidised by the mill-owners?—The Hidde is this sidemance by the mili-aware have core of their own.

1141. That is not what one would report as a purely commercial transaction?—It is not in the business way a commercial transaction. No more geograps man a communical leansaction. No more generous multises in Ireland than Mr. Sichardson, the miltoware.

coyote.

11463. That is a gurely soldah view. With mgard to the reports received from your Veteriaury Surgeon, has attention ever been directed to the fact that each pictors assimate were build in the breeft-yea.

11464. What genetics would be fellowed with regard photols minned with respect to the property of ave the teast scores; 11446. And no Order has ever been made for the sunstance daughter of an animal?—No. There is no compulsory alaughter of an animal?-No.

11607. Are any sureples taken in the district to test the quality of the mile by any officer of yours?-No. Impector. The three Darry Inspectors, if they see anything wrong, sall the attention of the Veterinery Inspector to it. He is very enceptic. He discharges

his delides remarkantly west.

1449. And you have reason to behave that the pro-ration of the Order are coffeeed with regularity?—We had a great deal of beside with the Whitecross Creamery supplies.—Thus, complained hatterly about the Order at Bort, and my Council did not want to above it too heavily in the beginning. We grave them

11449. What was the result of the prosecutions-was On our occasion we had to

11450. What or operation did you receive from the maginicates—did they asset you?—Yes,

11461. Did you find it was necessary at any sub-11401. Did you from so wan noteneary so may make quanti period to continue the processition?—We histo processits five people a second time. We picked out five of the worst cases and processited them, and she magnet trates imposed substantial fixes. It had a very road

11492. That is rather satisfactory and height in the enforcement of the previsions of the Order S.—Ten. We have a few people in the County Arough portion of the district who rapply Belfast, and in No. 1 District these 13:55, Mr. Wilson.—Before you pion away from the connery coppliess—was the result of your processions to reduce the number of sumplers to the greatness... thenk a few of the year worst cases—needs with year intrible permises—gave up supplying rulls.

11454. What happened to their milk?—They need it

\$1455. Drank is?-Yee, and some churned it may 13466, Would you not consider that a hardship so the butter trade that is carried on in the creamery?ctuded under the Order. 11457, You would being those men who make beam

an their houses under the provision of the Order-Xes, and my District Council, entirely composed a farmers, suggested to the Local Government Board that Commission that the pastores in this district are purant and the standard of male difficult to maintain. would not agree with that. I think it is reasonable good nature had, and our cover are well fed. 11400. Do not been our milk records?—I do: hat? 11090. Do you over have your milk subjected to a

deal of milk. The milk is tested two or three turns a such for butter far.

11821, What standard does it reach?—We keep a medi, what standard does it reach? we may be med to cover at the workhouse, and we have also a conteast for the supply of milk. Our standard is 32, and if at any line is falls below that we incire the recent why.

11092, Bid that often happen?—No. It only hap-pened twice in three years, and the contractor was obliged to give an explanation.

I100, With recard to the nows that you keep your self, do you ever test the butter fat?-Yes 13464. Do you ever find it goes below standard!— We find amonly that we get better nilk from the con-tractor than we produce ourselves. It is only fair to my that.

11465, Supposing the milk from the cover that you loop in the weekhouse was effered for onle in Newy, and that samples were taken and sent for analysis, in

all probability you might sometimes be liable to pro-scration?—I have longer our milk to init below the standard at times, but not very much 1199, Did you ever find it full to 2-502—No, never halfor, are costs. 11097. Doly not be subjected to a penalty me that came?—No. If we find our own cose so not give milk up to the standard we sak the workbosse matter. \$1408. It has been suggested to the Commission that

the milk yielding properties of our cown have detector-ated?—The best of our cown are shapped to England. We have more or ten people who buy nothing clie but 13469. And thereby the store stock of the country it deteriorated?—No doubt. I am multily annear limit we should keep the helfer calves.

11470. With regard to the milk yield generally, do

IMPA. With regard to the male yield generally, of you think the cow is a less pessionals arisend than the cow of twenty years ago?—When I was a fittle bey yielder hept a long number of cows, and I think one come are not as good as they used to be. I remain be when may father kept an Addressy or a half Mility. ney cow, and they gave a very large supply of salk, 11471. Is that part of a scatimental declaration that very eften made with regard to the old days?-No. I think the present reason why we have not so many good cows in the country in beaune these dealers told way the very best we have and send them to England be templated to a small farmer to sell a good com-

for £90 in very strong.

effect on the district

## Mr. Willard B. Brill.-Ist March, 1912.

11472. The pursets of a paircy of that blod would osterally detenceate the nulls stabiling properties of the aggregate number of count—Yea. That is why we have not as good cows to we might have in the country. because the best see shipped away-Here). In the del days the expert trade was not what is now. The same drainage was not going on?—No-11474. Here you may views as to have the notificial trade of the notification of the own neight be increased, by the infection of now blood or eary other method?—The first personn held god as personn bell god was very good. I said this. The first personn held god to the personn held god to the personn held god to the person held god t 11470. In the old days the expert trade was not what

11470. You have had no opportunity of testing what the result would be?—No. I have no experience yet. 11470. Was it no Irish-hered hold you becapit?—Xos. 11470. Was it no Irish-hered hold you becapit?—Xos. 11470. Dal you find any difficulty in tracing the record of his uncession with regard to the nill product?

The bull was bred by the late Mr. —No. The hall was bred by the late Mr. Anners, who had a very small select hard of pure-bed shorthern, and he was most particular about the milk, and he was able to give me all the information I wanted about 11478. He was one of those men who took up the quantion of increasing the milk before it become such a burning question?—Yes. Mr. Annett told use that

distant. 11479. What stendard did they reach?-The milk

said was a great deal more than shortberns are credited

n. 11490. Soven bundted gellens?—More 18481. Have you any openions of pure-heed aborthous yourself 8—Not much.
11482. With togoral to your Dairy Class in Newsy Show, what course do you propose to follow in order to carry out the view the committee extertain of offer-ing prices on radicing records?—Our pripriple is the most has been to get the cows in the night before the Show and have them theroughly milked by one own men. We look the cores up for the night, and no have the cores milled in the presence of the judges, and we

18483. Do you peopose to develop that he giving the milk records that have been kept and petting them before the yeahout?—Yes. We propose forming a number of officer, and scaleched by the Department's Inspector, to find out the milk yield of the core. 11484. The introduction of milk records is a m

of recent pass th?—Xes.

11465. Do you think it is likely to develop, and what is your operous as reports its effect—do you think it country?—We hope out but the tarmers are an an in it. The general run of farmers about here think it

15486: It is really an educational process, caused expect the people to come in al once; but when goat many core that we have in this country are not worth their food. They are unpenfishle. 11487. It was suggested to us in Belfort by a person intensted in the trade that he thought it would be a very destrable thing it special prises were offered at local filters for bulls the offspring of rows with milking records, and that they should be in a class ebsolutely spart from pure-lead builty-I would saree with that 11488. I think it is a very good supportion indeed

because, obviously, insecting such a class as that in your Show programme would be information to the quantity this secured was outing to quantities, and the people would be futerested in it is all probability some would become co-ert. This gratience was of opinion that the prices at the outset should be substantial in order to reduce a larger number to fellow the conditions necessary to seems this particular bread - I would 1169). You are in a botter position than they are in the other end of the county, because in Newtownsels

the people do not seem to understand the sebeme?— We have a accessly here known as the Jerretspass Farcers! Association, and they took the matter up, and the keeping of milk records is spreading. 11490. You said that numbers of news lent are by no means prefitable. I suppose the people who went those cowe are ignorest of their milt-yielding pro-pertical—If they know what they gave they would gave

11401. Mr. Wrason.—When you keep milk records you know that one cow is giving you 900 gallons and the next ow 400 gallons, and you know which to sell?

— Yes. 11692. The Chumman.—Do you think the majority of sew-keepers fed to realise the animal that is profitable and the animal that is unreofitable to keep?—Yes. 11993. The meterity of people often think if a cow gives a liberal flow for three months that ske is a good uniform cow, and lose sight of the fact that for four or five months who as practically a burden on the head?... I suppose that happens every day of the week all over

11604. With regard to the miss supply we a decrease the rural district, do you think there is a shortest there?—I am quite sure there is. In the district at which I irre I usually keep four labourers. Those mer connect get milk at all unless I supply them. I know one, we see but apparent no may me will said the children were getting a pant of milk m a day, and that must have been going on for a long time. I found out about 5, and we were able to rapply him. In the con-of the other mor I have the milk is included in the

wages. This men was only getting a part, and had great trouble even in getting it. That mus has get a That is a year desirable unprovenent, ser-11499 His once unintunitally would not be an indicted county-No. It is general all over the country mencept the laborating closics.

11497. Would that apply to the County Armsgh as well as to County Down.—In the County Armsgh there are not so many materies men. I see sufficient the married men. In Armsgh the systems is to employ the

man was new mean employer's bosse.

1456. With regard to occupants of labourers' cot-tages built under the Ast, how would step be supplied?

We have only a rery small number of occitages as the Union. We have not got a hundred at all yet.

11469. Do you think that the last of getting cattages and that they have a trainy of ventue Las in any degree increased their difficulty in guitaing their milk supply from their employers?—Table it that a man is working with a faviner and he is getting milk from that ferner. He isses this conformation and he is working scorewhere cise, and he would have trouble in cetting milk corresponding disadvantage in allegating the sympathy

1850). And that has in some degree intensified the difficulty?—Yes, 11566. Are goets kept in the distinct?-Yes, most of our meeting and Inbourers' colleges. 11608. But goods supply mulk only for a limited 11504. And in the winter senson none as available?-11.905. Has any effect been made to improve the breed of scois in the district?—Mr. Small, who was here yesterday, made some little effort, 11305. Have you given prizes for gosts at your Show?-Yes, every year, and we have always very good 11507. And you think it improves their chances of better treatment and once to offer the prince?—I think

11508. Do you subject them to a milk test?—No. The appraisate of the gost is taken into account as a milk yielder. In fact, I think the judges almost aprove courytting else. I always notice in the Stow that the goet that apparently can supply the most milk gots the tic.

11609. There are a good number of aborthorn heeds
the County Down?—You. I think the premium
tills are blamed too much. We have in this district Mr. Withole B. Benn -- Let Morek, 1912. only a very small number of premium buils, and I do

only a way sman number of premium stans, and a way not think they have done the damage that people say. In fact they have done a great deal of good. It is rethink, that talk shout permium halls. Our two recall datasets are owners by interior bolls. the country is not, as a rule, produced to any considerable ratest by the premium bull at all? -- That is no. The number of permiss bulls in the district is very small. There was be two undred other bulls to one promium built in the district

Mr. McEvry has a premium of a thirty reas, and be will tell you all about it. 11811. Lasty Evistant.—Warre are the sown shaped from to England and Scotland.—We have a direct sail. ing from Newry to Exercical we have a nightly ing item newry we are a substituted from more and a substitute of the more personal property.

11519. You surned give us statistics of how many are shapped?—No.

11513. Mr. Winsow.—Would they be obtainable?—It

riped?—No. HER. Mr. Wilson,—Would they be determined to tak so. Mr. Smith, who is present, may be able to the so. Mr. Smith, who is present, may be able to think so. Mr. Smith, who is present, may be able to give you information as to the shipping from Newry to Leverpeel, but I understand most of the cattle so by Greenees. I think we could get the Greenees figures

11514. The CRAIMAN.—The statement has been fre-outly mide before us that the English and Scotch buyers come over and purchase the best cattle?—Yes I don't disagree with it.

11556. It is the very thing we are working for, to get a good animal for export?—But I am very sorry to see 11517. Are you not more pleased to see the gold 11517. Are you not more pleased to see the gold coming m.-I would like to see the good sees at home. 11518. Lady Evranus.—When in Belfast we got statistics that 77,860 per anoun of millions or potential millions were smooted-la-Yes.

11519. That is an enermous strain on the country have a nightly shipping from Greeners. 11030. How many inhousers' cottogue do you say you have in your two Uniona?—A very small number; we one in your swe officers—A very man; summer; we only started about theme or lear years age.

Intell. Am the laborators you open of finding any difficulty in griting granting for a own if they had our?

—I only know one man in a Union cottage having a cow, and I don't think be has my develor. If the abourses were able to get cows it would be easy to get graving.
11092. What is the greeing rate?—There is no grav

11000. What is the grasing risks—Thore is no graing boos. There is only one demeans whose they take graning and that is for young mittle.

11000. Do you thrisk the land occids be get for grasing 8—Tee, it would be very easy.

11000. How you the alvent months' system several head—Not very much.

11200. Have, for men here are not very large?—We have,

1193b. The sums now set not very large :— we may, I think, so far as I recallent, in the Union of Newry between 22,000 and 23,000 hadrings. That melades the town. We have a very large number of small farmers. town. We here a may in the Union.

11636. The Charman,—And no sanches?—No. Vec styled that the In The Character.—And no streets re-11527, Lady Eventure.—You stated that the Impo-tance would not pass. What became of

tor found cown case women not past. What necessite of these?—I think must of them went to the knocker's yard which was established recently. They get a small rice for even. Fig. The Courses .- I hope there is no meat pe

ryed from that place? I don't know what they do with a mast. They kill horses. The meat is shipped the mast. They fell beeres. The ment is shipped away. It is generally thought it is made into German stranger. I know that this domand for German strangers has beened in the town of Kenry. 11829. Lady Evenano - Don't you think that a per-son should not have power to sell a discoord cow -think to, but the owner should be rempensated. med it would be the means of industry the farmers if they had a discussed own to declars at?-Yes, 11531. The Onansean -- Would you pay the full rompersonion?—They should get two-thirds of the mucket

11533. Had you my brood grats at the Newry Show? Chip one, and that hid not got the price.

11334. We don't mind about the price. The object to get reed molices. The advantage of those foreign gots in that they hid at all times?—Tes.

value of the angust.

11558. You think that would be a reasonable com-pensation?—Yes, and it would induce the people to come in if they respected that their cows were in hed

11555. See Survey Woodstone.-In the case of a occurrently by high process to sell has good cow, do we no country is most good as it we could got a straversal system of insurance on live stock. Three or four of my mittle died. They were not insured. I manned only two seamnle—pure bond and therough-level untile. 11536. Why not course the rest of the cattle—are the nice probability ?—The farmers have never considered the matter. The wast boilt of the farmers in this da-iriet do not income their houses. Some of the largest armens in the district have not a penny of insurance of

her farm bubbings.

Ilino, There is great scope for agricultural imag-nec?—I am absolutely convinced of that, and it would he a good thing for the farmous if they could get a Sverool system of insurance.

11538. Easly Eventure.—What Je you pay?—Pire per

15539. You could not pay that on all your stock?-11540. If it suchi be done for it, a head, would it pay?—You. This year I must have suntained a loss of at least 250, and it would not have cost me nearly a much if I had my catila maurel. 11542. Is there much abortion in the district?—No. 11542. Is there may disease among culves?—Them 11-white scour and bineking.
11540. The Charmens.—What did your stock the

from?—Some from scour.

11544. Mr. Witaner.—Is toberculosis provided mongst cottle in this neighbourhood?-- I am afraid it 11548, With regard to the Voterinary Inspection in the various public bedies you belong to, have the Insteadors reported eases of tuberculous of the under? You. The furnees don't test their casts. Ink there are ten tested cown in this Union. 11546. When your Veterinary Inspector is suspectors to use the milk of the cow, to believe her and keep her under observation: if the own gets wouse, he advises the was to get rid of her.

1347. Don't you think that is rather a dangeror way to breat a magnification over-dangerous to the public bealth. Tre. I think they should be destroyed and the owner compensated, 11548. With regard to compensation, would you agree

discussed, he should then meetre all compensations but, on the other hand, if the veterinery impactor discovered a discussed beaut at the comme of his cedimary rounds, that the owner thould reserve no com-pensation or very little?—It would be hard to much some people because they are stuped. Perhaps it would be wise to give some slight exict indecement to the 11549. We want to get these animals brought cot as e as possible voluntarity?—Yes. 11500. That the moment a man has a respector that \$1551. That when the education has get more widely read that it would be regarded as alreed a crimina bing to keep a seriously offseted unional in his hard?-

11572. Mr. Comput. .- Be you know exactly, and do the farmers know, the provision that but been much to test male) cows?—Do you mean the Department's

11653. Yes?-The immers who live shout the neighbourhood of Newry and Jerrotopees know all about it, but it other distracts of the Union, I fear, they know very little about it. 13554. Can you tell me what are the provisions that have been made by the Department for the testing of

The Department go. The Department invite people to send in applications and they had their cown tosted. That is I I know about it personally. 11555. They apply directly to the Department?-So for as I know, they do. 11656. And the Department sends down as Inspector to examine their hard?—That is so, I believe. They sent down in Impector from time to time.

11507. I want to know if the provisions of that asheme were well known, and I wanted to test it on you?-On the whole, the people don't know very much shout it except in Jerretspace and Newry. 11538. There are two methods. One One is where the 11008. There are two notheds. One is where the figure applies directly and indivisionly, and the own-are extraored as to conformation. Thus the farmer loops a record for a year and the heat owns are put-on the register. That is one way. The other way is that the farmers from an association to keep milk records, and then the Department Inspection core of these two schemes are known in the district I have

MINISON. Three is a business in the minds of people I meet as to this matter?—That is so. Generally gent-ing, the immers are not sequentiate with the schools. Inlied these two methods, you will understand that the first matthed most be a very expected that the first matthed most be a very expected. former and inspect his own self side samples of milk. The other method is where an association of furnities in it themselves. Could not the News Agricultural Slew become a con-desired association?—That is what

we propose to do. We propose to form in version distribute local con-testing associations.

11261. But cannot you be the prime locally. We propose to do that. The great trouble as to got femines nationally. It will take a lattle time helders we can do it. H1902. Is it your proposal to keep the record hook in your own society, or sie you only going to send them to the Department?-We propose to senist the Departthe Department's—We propose to arisin the Department in every possible way, because a technical selection as good one. We propose to get much discover as good one. We propose to get much discover as the distant of the voluntaries to not flast from the distant of wollander to not flast more the distant of wollander to not a secretary of the association free of ood, and in that gives the contract of the production on express.

The distance of the production of the expression of the production of

1356. And me you going to see that the milk is salves ?- Yes. 13466. Are you going to do that yourselves, or do you looked saking the Department to do 152-We prosess to 11006. The conditions would be that the farmer would keep a record of his cows' yield, and then you would not on the resister those anamals that had

in addition to a good milk yield good omformation !-11097. You propose to keep that register yourself?--11568. And if the rest of the country did that, 220 or 250 pow-testing associations would be established...

There would be different standards. You would have a high standard perhaps, and in mother part of the country the standard would be your low?---We see by we believe that our somety cannot work our amountains ever the whole distinct 11300. Will not your somety be the nonety to register the county.—The Newry Agracultural Ston is to be the

the controller revery agreement steen is so so the parent and to be responsible and to check the work of the con-testing associations.

11570. And to carriety to buyers or others that them are estimate that have spreng from selected cores and selected bulls?-That is so. L The other way would be for the Department to be the parent society?-I think it is better that the hard security aboutly rest thank it is better than the hard security should be the parent. 11.072 Mr. Witases—You would need to stundardisc the revera hooks?—You. The Department has pre-

sersind room.

11973, Mr. Campera...—Your iden is that the local
Agricultural Scounty should not us a nort of pacent to a
large number of smaller societies, the small societies to large muscoer or massive sometice, are arrest soverness to be responsible to you, and you and the others to be responsible to the Department's—That is see idea of the scherce. Our Society has also had the queriess of

has course of years, and we propose to supper a cum-ber of Aynaire buffers. We propose to supper a num-ber of Aynaire buffers. We propose to go to Scotland and got a susil number of in-sall larides at free, I spale to Mr. Tedensile about the prop. and I think we can awange to pay for them. We also true, through Mr. Romey, as estimated lead askid dealer, we can manage to pay for them. We also trust, through Mr. Bonney, an extensive local astile dealer, to import heiler culves of the Helstein broad from Lord

Ridley, and a half of that becol. Mr. Rosory thinks that he would be atle to get a holf of that breed. III. Rosory thinks integrove the sulk yield, and from the post idears: to improve the sulk yield, and from that pust of river it would be a great july to throw rold writer on it, but you will have a messagers here soon—I. We'd offinished. 11075. Take the own of the commerce. they continue to pay the present prices.

—Yes. 11077. Would you lot each of them set up their own standard?—No, some of them might set up too low a You would let the Department set up a for the whole country. Would you let them 11578. Teo would let the Department on op a standard for the whole country. Would you let them keep their own records?—Teo. 11579. For were talking of having a member of cov-teoling associations affiliated with your Society. With when would the creatment affiliated.

11860. How many ecommoties are there in your area?

—We have one at Whithcome We had another somiliery creamory at Haley, but it fuled in a short time, it only lested a very band time, and I think time. It only lested a very band time, and I think

title, in only insid a very tract time, and I team it is polled down.

11.091. Would you take in Whitecross Commery9— Yes, we would be glad. We have another enumery at Hissa. Too would like to take that in .-Tes; but they would rather go to Banbaley, because it is nearer Titles. Do you know if Banbridge is going to form a w-bashing association?—I don't know.

11684. Do you know of any other district going to the Valorinary Emperico-does he take his at the Vetermary Emperice—does he inke has indexident from you?—You, we doesno mattern.

11566. What instructions do you give him?—Els 11666. What increasition do you gave him-self-ted to be self-to any office, and frequently he assume up-ted arranges the districts that be in general to self-strate the final self-to-self

occording to Comman, and a go over his taken, one any posturelarly had excep, be tithe me all about them. It 588. What one the particularly had except.—Belly step co-mainly, dray and hadly pearly pennises, milk lept us the development, and completes under the bell have seen their system and completes under the bell completes and the seen their system and the seen their posture are the bell completes and the seen their system and the seen their special many a term. Is there a standard of excellence in your nind that you want to aim at 1-Yea.

11300. Is your studed of any way different from
the standard in the Armson Urban or Sural districts? of mention in our armings cream or every distric-l don't know what the standard is there. 11291, Do you know anything of what the of trid districts are doing as to the standard?—No. 11803. You set up you own stendard?—Yes, 11803. You can be us street or as lement as you like?

HIMS. You can be us since or as leminn as you have.
—We see thing stated.
HIMM You need not be strict if you like; it reads
with yourself—You.
HIMM. With you personally as with the retorinest
some minds a standard, and we are trying to get the
control or the control of the co people up to M. 11866 But the standard is the standard of yourself

and the reference surgeon?—Fee.

11897. And you are the reference surgeon's supersor
offers?—I don't think I san. 11106. He takes his mateuritiess from you?—He does 11500, It comes to this, that you are the absolute authority?—No, I don't agree with you. The whormany surgeon discusses individual causes with mo.

is recognished.

11000. You are the authority and the farmer more lock to you. It is you be most he afred off—These lock to you. It is you be most he afred off—These lock to you have been a lock to you have been as the lock of the loc 11002 With regard to the minutes then are settle to the knacker's yard, is there may authority to follow 9 X 2

much as possible to pay current expenses. that three-burtle were of small quantities—a part would be the major quantity and less than that we 19640. What proportion of the milk you raise is sold pure?—About this time we would sell three-fourths sweet, but at other times only about half sweet.

people are buying rallk in smoder quantities.

11694. And see you interested in agriculture—Yes, and dairy farming.
11695. Is there a shortage of neith in your district?—No. We send cests round our district, and are unifous to sell mails locally as far as possible.
11695. You netually send milk through portions of the occurry?—Yes. 11637. And sell in quantities, such as may be re-quired by the buseholders?—Yes. 11638. Is that an increasing or dimirmizing trade?— 11829. Can you give any reason for this?—It is generally stated that the payments see had. 19600. There is a searcity of money?-You, and people on toping into it source quantum pro-per in the property of the property of the pro-by the householders in the district you serve—Fee, amongst the peop cought, I lind a life peopled by our milkman a whort time age, and I was surprised by fact that three-distrible were of semall quantities—a part

11625. The Caussauv.—You are resident in the suighborhood of Bathfulland?—Yes.
11694. And see you interested in agriculture?—Xes. incoconité frequestracent—me acti sis se una sec-clarre the bolomer.

11666. Do you sond any to Belfast?—ho.

11676. Or you send any to Belfast?—ho.

11676. What distance from your dairy do you

11686. What distance from your dairy do you

11686. What distance from your dairy do you all the suburbs and supply the people there.

be destroyed

19688. And the children don't get milk otherwise?-No.

11684. Do you straibute that to searcity of memory or want of appreciation of the food value of milk?—To both. They live very much on ten. 11655. Do you self all the milk you produce in your spacedate neighbourhood?—We self all we can self

19602. Even in the borneholds as which there were a number of children?—Yes; they only use milk to colour

11022, Do you think that public opinion arrough farmers is ripe for a measure of that kind?—Yes, I am Mr. TROMAS CARSON CREMENCI.

no me were con meany is very continuous with pro-people, and first cannot afferd to buy mile. That is a difficulty on the question of distribution, and that, I am artisal, our only be most with by some effort to reduce the price?—You cannot reduce the price union you get State and. The main difficulty would be the distribution of the mile over a large area. 1989. I would make it a condition that the farmer contrasting should distribute over a large area. The cost of distribution is undoubtedly a large steen, and the waying demand in another of the very good

Hoss. The Churman,—Have you thought of any scheme observey it would be possible to most the searcity of milk in rarel districts?—I don't know; is in a very difficult question to deel with, but that there country I have no doubt. 11809. If your Burst Council was empowered to make a conjunct with a farmer, or several of them, and guaranteed a fixed consumption for a quantity of rellk' in he delivered ell over a certain area d'eccivity in whole they were interested, and in which they were arrives to Improve the apply of mill, the District Council to be empoyered to fait the peloc of the mills, the period of the mills of of the warying demand, because you know quite well that at the work-rai recover it very often genere with non-

11606. I kope you will persuade them?-I hope so. 11007. Would not the inspector under the Food and Drugs Ant Interfere?—No. The most is not offered for sale been. It is abjuged sway. It is not sold in this distilled, and now Cornell don't bother that bands about it; they say that it would do for the Germans well

simpher-house reasonably closs.

13604. Can be sell to the local batcher?—I don't
think so, because the Urban Council has also adopted stringent rules. 11600. He can shift them to some other piece?— cs. I have endeavoured to get my Council to bry ad know what becomes of the mest. The Council Yes. I have en are not inclined to bother their heads with it.

my Council issued a licenze. We have suppose and laws under the Public Health Act which have been lives under the Public Health Act which have been approved by the Local Covernment Board. Every man who eleoghters a besid must apply for a licence. We have here eleven medical efficers of houlth, and they have reported that, in their coinion, some of the 13000. What about the knacker's yard?—At the present time we have no means of supervising what becomes of the stuff, so long so the man keeps his

Mr. Witzraw R. Brin,-Lef Morris, 1912.

up the destination of the diseased excesses?--No: there difficulties to be dealt with?--- I have never thought or any such scheme as reports milk 1982. Do you think that the scarcity to which you have referred is sufficiently widespread at the process think that any more to surply the read 13612, Sir Strwart Woodworse,-In there a yeater against welling milk by the small furners? Yes; if any small immer sells a great of milk be owner. under the Order.

11618. The CRARRAN.—Has the imposition of the Order trusted the sale of mult?—I don't think to were 11614. It is not a powerful factor at all events?—No. 11615. Mr. CAMPRELL.—It has Emited the sale to one extent?—To some extent.

Holls. The GRAINAN.—You have not meny resonence in the distant?—Only one, in Whitecome, not these is one in Loughbrickiand, on the borders of the county, 15617. Do you think the introduction of ornaments has restricted the apply-int domastic purposes?—I.

don't think so. Commercia to not silved perposary— don't think so. Commercia do not silved the suf-leide in the town. The Whateoress Creenery is eight or nine miles away. There is a line of railway is contomplation to Wateoress.

11618. No milk econos m by tesin to Nowry5. No no far as I know. I think it might be possible in the Urban Council to work some scheme in the term

ins cream to the milk supply, but I am afraid then no regard to the milk supply, but I am afraid then would be a great many difficulties there. 11619. If you would be stoomed by difficulties was

Holds. If you would be sleeped by difficulting you would now re-overy out any reform?—That is no. On the whole, I think there is a fairly good supply of milk in the town of Newry. The poor people complete about the price of the malk, they say at is too

dear, but the duramen will tell you that more cares

be produced at less than a shifting a culton, and T agree with facm. The poor people say that they connect afford to pay threeponse a quart for salk, but there is no artisle of diet so chean.

11020. Mr. Winsox.—De you think that the owings grown more in Newry realises that he could live un-male?—He does not think anything of the kind. I hope the Department will do sensithing about the load hells in the country and get them destroyed. 11621. Mr. Campung, -Are you in favour of hornor all bulls registered? -Yes. I believe no boll should

all buils registered?—Yes. I believe no ton about be allowed for public me values is attained a certain standard. I don't believe what is being said about the permium hole, it is nonsease. I had a premium buil from a well-known saffiring steaks, and it was

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Mr. TRIDGAS CARSON.-Lot Morok, 1912.

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11641. In the segment session?—Yee, when nois is plouted, and they have goods and other supplies. We seem that the seem of the

cases during the sources meaths.

11664. Do you supply the entire town of Bothferlands—Bo you supply the entire town of Bothferlands—Bow samp dainy come do you keep?—We keep beently-ent in full sulk, and then we have some prigner cuttle.

11060. Do you mix the milk of the pedigace come with that of the dairy cettle?—You. I have got a purewith that of the dairy cettle?—You. I have got a pure-

had herd. I get them for nursing our own advan. I have Aberdoon Angia and I have a few shaekeens. [1041, Do you loop, any seconds of the pure-head shouldernest—No. [1148. Nor of the communical duity consy?—Yea, We have records of a few own provides ally solected by the Department.

Department.

11648. But you have not kept them long enough to enable you to say what the null. yield would be for tasker ascendad—No; we can approximately do so from what they have produced up to the present.

11668. It has been represented to the Communion that there has been a dependance in the milk yield of the present dairy ow. It what a well-founded belieffly.

these steeps the control of the cont

from these see better still.

11859. Do you recomment the duelinst type of Iriah fairy cows\*—I'es. They were peculiar colours generally—black need dars, some red, with white backs. They are now estimat. We searrely ever get a white backs on you. The best own I committee when I was a beg

are now extinct. We scarrely ever get a white hasked on now. The best cow? I commbe when I was a key was a days-coloured cow. 11633, Was she horshes?—No, she had beyon. 11834, Mr. Cantrinati.—The day cow had met a white

11650. Was she horstean—No, may now cover.
11654. Hr. Caurimiz.—The draw cove had not a white
held?—No.
11650. The Cauminev.—Wes she of the ferror type?
—No: they seem to be a distinct one. They were
hoger than the Jersey and they were a good comnovelal arimal.
11650. Del they beed good stee stool?—Fulle good.

11000. Dis may one ago as as propert. Cattle have incorrowd in quality as above. 11000. The type would be less untoble for best profession.—The untirely weak not se so coely. 11000. Were they best her best per could be so coely. 11000. Were they best per so so this of indexed as in these days—As, it was unbrased of.

these days?—No, it was unheard of.

11660. Howe you had much trouble from tuberculosis to your hard no any timps?—No.

11601. You have not authored any serious too from time.

117—No. I have the pathogue could bested every you.

11.002. And you never had any receives?—No; never

100001 2010 per access and any countribution of the charlest depect in the schedule of the charlest and are of two skeethern cours.

1201 feet on two skeethern cours.

1202 feet of the charlest of the charlest need to be compared to the charlest need to be compared to the charlest need to be charlest need to the charlest n

11664. You don't becelor to that No. My experience to their fleet seed mile are compatible, but that far east refit are not compatible, but the dawn, and the castig that are prefixed to a expendituration of the choose is descripted, because they are not sustain to mile. The fleety bell of any type as a cost of ball, and show all not reduce the suffitor my steam. The cutting of all pair reduce the suffitor my steam. The cutting of all pair reduce the suffi-

they are not satisfall for milk. The firstly bell of any type as a noted ball, and they will not reduce the milk to any extent. The cutline of a fleshy enisal is an overoutflar to the eye and the outline of a fotly summal 1966s. They are portuberances?—Yes, and that class of mirral is not a good author for milk.

13666. Where do you key your dairy cowsh-in the counts fairs and from the famours in the neighbour-lood.

11607. Do you over try to procure exemple with a milk

round from a good militing strain?—I have considerasity. I five a Jersey over and some Ayrebbir reviews at the present time.

11466: Would you be good enough to tell us of tick Ayrebir cross on a shorthcar?—I did not knowl them.

11460: Would is their conferentiat—Out I have an present has the colour of an Ayrabire, and we a tittle leager than an Ayrebirts, but delotive in properties.

reger with in Appenium, but accounts in properties to the cherthous hype-mirrow in the back and front. They never selfed me, that class of animal. They don't early field, that the best are not worth very much account. Helfo, World you tell us how this animal conducted herself on a milk producerh—Furly well, but there is a

herest as a milk producer?—Farry well, but there is a great developed; in the effuguag, 11671. Was there anything shacensi in the milk production?—No. 11671. It was not sufficient to counterblance that deficiency in the value of her offspring?—Nos is my

Hidds. Bo you keep all the cown as long as they are realizable in relik-do you keep them for two or thous enlyings?—Only the book of them; we sell all the others. We keep the best of them:

contrary when you come to income we act at this limit, the come of accretion when their nalle-yield into powers are a conservation when their nalle-yield into powers are a conservation to the weighting machine's Yea.

11675. What do you request as a fair yield for the commany commercial one in twelve machine, any 1-1 have nover more do an exercise tent of that Kind.

ordinary commercial cow in testes menths, say!—I have nover noise on security test of that Red. 11807. You have not calculated the yield per cow!— Not for that period.

11678. Take the ordinary period of treeler months, it would cover whitever condition the cow was me for that period. That is more collable, heesing if you take them for a lectalize period some may give a

Bloom style for a horizon period occor may give a placed styleyly for a short period and others would are tend beyond twelve macrita, so that I think bredve is morths in the fairnest south—I think it is. We find that there is a great difference, and that the cow's yield is bester if she is not allowed to go to the ball during if he helvillen period.

and the lackstein period.

11679. I you'le follow what you mean, het that would be rather at nanound policy to follow, sirruply to got up to the reason of the period of the period of the or consecurity to the period of the per

policy William are not seen and a new process of the control of th

The Hoff, Of course the stream on their continuous must recovered by its remember "bet, they drop, their mids bett, and in that one thay are not servenished. The means speech following the stream of the stream with the str

while mirrar so general purpose.

1160. They would not be for delay purposes—

10 Consistedly. I have knear people that have core

2 from the first Aberdeon Angus verbes years upon oil

2 they are the best eyes they had.

11095. These would be come-lead coors—Yes.

11080. And what chamolar would they position of—

in 1998. These would be cross-level covery—Yes, and 1998. And what channels would they print to element of the war they note Shuthom or Angus it chescier?—They were Angus in chescater and all user horizons at 1999. A fur propertion have groved to be good dury cause?—Some of them have, and one many. If they been cover and to be valuable, and are sold at the greens.

big prices.

1087. Have you insted Abrelleca Angas cow's milk coal compared it with the Shorthorn's?—No.

11688. Do they give as good milk?—I never made tone.

Mr. Thomas Canson.—Let Murch, 1919.

1168. What is your behilf—Tall, they are moderately good rathers, and the mill is finds, and from the quality of milk they give I always that there have no removabely well, not that agent to know that illustration of the property of the p

1160. And you object the kreef retize than 1664-1768.

11604. Am key kadig the as shewkeen 7-768.

11604. Am key casier or more difficult to get11605. As no sortients all still keep them in the
collision 7-768, and they are more market lobb. These
11606. Do you think if the counting with the Aberkeen larges become general over the what of County
1606. Reply of its deleties—out of it is go definitional at 3

1607. The still of the deleties—out of it is go deletional to the collisions.

don Augus bessure general over the whole of Courts.
Down they would have an approache defect out the
min might be an approache defect out the
min might in a resident existent, but I think you would
have either compressions.
11007. We are dealing with the mills side of the
"Miller" by you think that whatever has might be in
the mills would be compressed to be in the additional
who can set at a higher given for the mills.
11002. You get no additional power for the mills.
11002. You get no additional power for a high-class
modeline place. There the exercisors give his a
modeline place.

models. Again the second of th

resize the proce that it used to do. We used to have our own halfprant and permy measures, but that has been elargest, and consequently the smaller quantities have to be general, and it is not a profitable way of direct leathers.

The process of the same degree restricted the sales—we suppose it in some degree restricted the sales—we conserve to supply.

11700. But other people might noth—Yes, 11707. If they were allowed to measure it would be

INOV. If they were showed in measure in course in more convenients, and it would satisfy both parties?—The only way we could meet that would be to insule on not selling anything smaller than the relandered massaure; but that might probable seems people berging, so we grows the quantity; but I object to that.

11708. It is not commercially sound?—No.

to that.

11708. It is not commercially sound?—No.

11709. Are your promises Suspected by the veterinary improder of the Newry Resul District.—Yes.

11710. Have you say reason to complain of the postumen of the Order?—I have great re-son to complain.

HILL Is what parismint—because I limit it is very parishing remised outlier. I sufficiently all the conparising remised outliers of sufficient parismints for—I shift the Order as a good see, and I suggested of a ITPA. These a robust I would have respected from a support of the contract of the contract of the conrathered in our directly as the contract of an approximation of the contract of the contract of the contract of any principle of the contract of the contract sources that has led to the sherings of the supply of year course professors of unit, relative thou as to latter trait; and which the Coder has done in prosent contract of the contr

mode lotter, which say is made under any conductant and loop in any conductant. Districtly, the horizontal loop is may considered. Some of the control in the conductant in th

is adding it of the time. I would apply the Order

11742, Ash you would prevent a man primaring low
mently if he felt on submed?—Yes,
married with the felt on submed?—Yes,
married or in
primate tests, and assertes to every it not in
reasonable way, cools deposit to the percentage of the
abstraction should be the Confer representation of an
interest to the Confer representation of an
interest.—Yes,
11777, In regard to the leaves to bodies offer the

11772. In regard to the leaves to bodies offer the

11774, In regard to the leaves to bodies offer the

11775. In regard to the leaves to bodies of the

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TORK they you had difficulty in girthing as rifered.

1170. Here you had difficulty in girthing as rifered.

1170. Here you had difficulty in girthing as rifered have more difficulty on the dipentional of bloom because of the Southay water.

1170. Here you want to the search of the search of the large o

with the second strongly 3-1 or 10.

The real content of the second strongly 3-1 or 10.

The real content the dependent of the second strongly and the

silescenty them off to cross in on a high aims while he had our concern much the her double to croftled, but had our concern much the her double to croftled, which is the had our concern the had not concern the had not concern with disturbant headers that has been double to correct with disturbant headers that has been only the had not concern, but had not be really suffered to the headers of the country, more had not influence to the head own in the country, more had not influence to the head own in the country, more had not influence to the head own in the country, more had not influence to the head own in the country, more had not influence to the head own in the country, more had not influence to the head of the head of the head of the head of the headers and the country and the head of the head

Mr. Transas Cornov.-let Merch 1912

cow?-I see something near it. My best con is a black cow with horse, beed up from that cow- a very beary miker.

11126. You do not know how she was bred—she is not a countred Aberdon-Angus?—No true of it at all.

11727 Is she a firstly basel?—She is a general nearpose beast—a good commercial beast, with a

purpose come of good agreeded malls bag. 11728. Have you got her calves?—No 11729. And is she a cow that you pointed up at a fair? I bought her from a gentleman who owned her at

-1 bodds for even a generating who owner me at the own place.

11700. He skd not hered her?—She was beel in a mountaines dustriet, I was teld. She is a cross from a very old stock of black sattle that I resember in

a very old stock of black sattle that I rentember in that dimeter opposed them so analogous to the Irash 1970. Do you regard them so analogous to the Irash to the control of the Irash to the Irash to the local Tables, we call it the Irash to the Irash to the that was the breed. In Fashwal, but in my early days that was the breed, in Fashwal, but in my early days that was the breed, in Fashwal, but in my early days white basks, and breaked. It have seen nevent of the Irash to Irash the Irash that the Irash that the Irash that the Johns Morelle and they are galacted cover. They were the best cover to self-ell these cover with the characteristies of the old Irish cow. Generally small

characteristics or one cal from core Generally smoot frames and cowdeepers who shad in need of naking money will cell the most valuable sements. 11753. They are fermigated by the crites price to sell the good besit?—Ten. 11754. And regime them with very infrarec ones?

11756. In much loss extuded to the country by the export of the best type of cow?...There is a less in money and a loss otherwise.

1978. Do you stank it is deteriorating the milking properties of the cowf. Not if they get good extre-inated. I know a gentleman who solls all his cone in their prime and heeps his young heifers, my, for two their prime and scept me young herms, may, he calten and sells them at four or five years old. 1178T. Is a cow usually a worse milker on her first onlying than after her second?-Yez, but she is

18739. What price do you retail milk at?-About 5d quart. It does not work out at that schedly. 18730. In that summer and winter?-Yes, at the In there a variation in the perce?-We used to vary it.

11741. Do you feed your cows artificially at all anamous?—Yes,

10745. Do you food hay or straw?—Beals. 11744. Cheff?—Mo. 11745. pour sides your cows out to the winter on. mo?—Yes, except the weather it very severe. I allow them out for a drink and a little convene. I

13764. Too like to turn there out for a compa-lary. We take them out to druk and give them a little excesse. We than it is good for them. 11767. Healthy?—Yes. 1749. Healtry.—res. 1758. Ledy Evenun.—Do you consider the Abor-cu Anges crossed with the Shorthern is good?—Yes. 11749. Do they mature carty?—Tes. I have known 11760. Do say minure only -- Its. I have known them to makers in early as eighteen months. 11770. You have been able to sell them of at eighteen mysake?—You, to the belcher.

(bloom myseks?—You, to the butcher. 1975). And you think that they milk well?—They ik moderately. rellk 11753. It is rich mift?—I expect is is.
11750. Have you ever tried the Shortborn-Jessey part—So.

19754. I think you said that you comedered all the products of malk ought to be under the Ordert... es. 11755. Hi. Camentio—Did you ever have of a breed lied "Longborn "No." I now it as the Royal Show. 11759. What were they like S.—Very fine arrends. 11757. What had of heren—bigned S.—Yee.

11758. What colour?- Brandled and white backs. 11759. Do you think if they were used in Ireland it would improve the outile?-Yes, 11780. You call them old Irish?-That was the name we had for them. Purhaps there is another

Mr. Astron M'Evos, J.F., examined,

11761. The GRAMMAN, ... You are interested in agriculture in the Jerretheese district. Mr. M'llyn ?... You

three. Do you stupply a creamery?—No. 11768. Or do you tell milk pure?—I chum 11766. Are you not within easy reach of a large vide, or do you consider the other the more countarabe, or do you consider the other the mon-micel thing to do?—I thank it is better for us. I never did anything clar.

11766 What breed of cows do you keep?—Short-been cross and puze Shortbeens.

11797 You have a puze-bred hard as well?—Yes.

a small her 11708. With regard to the ordinary commercial orw. is that now to-day as good as say other one that you have been familiar with?—I think I have very har

have been families with?—I than I have very ma-mining shorthest been represented to the Gammi-man than the properties of the Gammi-mon that the rails' picture, perpetties here de-monstrated. It that your openion—I might in own there-ical, the properties of the properties of sharthouses, but there is a good based of shortherms of sharthouses, but there is a good based of shortherms IITM. Do you keep recorder—80 in and obstruction IITM. Do you keep recorder—80 in and other than the contract of the properties of the contract of the contract of the con-traction of the contract of the contract of the con-traction of the contract of the contract of the con-traction of the contract of the contract of the con-traction of the contract of the contract of the con-traction of the contract of the contract of the con-traction of the contraction of the con-traction of the con-traction of the contraction of the con-traction of th s one this year that is rearing her own call. She is a

s core than your water the samples of the milk to spece-larity. You do not take samples of the milk to spece-lant its continues of buster fact—Never. H1773. What is your botter market?—Newsy H1773. What is your botter market?—Newsy HYTA. What is your souter manney.—Newsy HYTA What prize bes hotten becauseding at in Newty?—We have got to the length of its 4d. a lb. 11775. You will it in again quantities?—Yes.

11776 Medr up in pounds -No, as bulk, twenty 13777. Does the better compare favourably with the creamery better?—I believe it does. We get a good nearlest price, and the customers like it. 11778. You have no experience of errameries or rap-

piying milk to them at all?-No.

11779. Do you think anything could be done by policious selection to improve the milking properties of certain shortharn breeds.—No. I find my cattle that I have been rearing for years as good to-day as the day I communiced. I change the balls regularly. or day I communed. I change the bells regularly, 19760. In the purchase of bulls, do you take any countries to get a bull from a milking strain?—I buy good tilled, shore-segged but.

INSL Utterly regardless of the milking record of
a dam?—Yes. I generally buy a thick, short-legged call, and he has given very good results so one nearly

renticod.

11782. Have you heard say complaints of the milk-producing properties of the sows of the district having hees determented by the introduction of the fremium States—a on near it.

II/WR. Has it had an injurious unflagues on the
milesproducing shock of the country?—I do not think
as, if the core are nisely selected. I though the bulls
would not deteriorate the militing maintee of the core votts and occurrently we mitting converse of the voter rowy mooth as far as I know. Of occurse, there are always people who will be willing to blame any new achesise for all the dis that have occurred. 11784. And for many that have not occurred?-You that is right. It is parties that know very little about

that is right. It is parace onto account compliants. I those both that make the greatest compliants. I have known neighbors and larmore around me that have known nongoneous and names around the weak would senteally send our cow to my bell in the year who would complete first that the built was a had one. 11785. You rear bulls yoursell?—Yee. 11786 Where do you sell?—Dubles, penerally, 11787. Do you ever send in to the Newry Show?—

11788. It is not at the best senson of the year?-It is too late to the year. 1789. Lady Frigato. - Do you organic your milk before observing? -- We shum the whole. 11790. How many gallons of milk go to make a pound of butter?—I tuve no idea. 11701. Is there a Farmers' Association about JerMr. Asyana M'Evoy-let March, 1912.

11792. Do wee belong to it?-I have never attended 11793. What do they principally do?-- They discuss farming matters and stock.
11794, Mr. Canriezz, --What do you do with your intermife?—Give it to the ealers until they get strong, and I give some to page.

11786, Do you ever sell it?—No.

11766. Deep for ever sen pro-rece, of hearging in the holterwilk in a cart and selling is in the streets? —Yes, by some people; but I do ust do that. 11907. What would you get for it if you did that? Singence a desen quarte perhaps now. 11796. So you think it is worth that to you at home?

11799. You see making then shout 81d. a gallon with your milk, meaning that you are taking 31 gallana to a pound of butter. You are making over 86.5 11800. Is not in 6d. a lb. a very high price for better?—I get in. 4d. at certain periods, but my average price would be between in. and in. 2d. We

stering pion would be between in an all all whally ever tell under its a lb.

11601. The Changest.—Lour average price would be morely in 24.7—Yes, between in 18, and in 24.

11802. Do you know the custom which prevuits in many parts of the North, in which a labourer sets a

wages?—Yes. 1885, Murred men?—Yes. 1890. Do marned men move from house to house and from farm to farm occasionally?—Yes. I hire servant boys. 11906. I was talking of married men?... I have a

11807. Is in quite a common possition for a laboustry to shift from one farm to another?—Yes, 11800. Was it more common than it is now?—Yes, 13909. Was it 13909. The lab r h year? Los. 11810. During that time you feel movelly bound to we bim milk for his family?—You, and butternily, tistl. If a laborator is in a Union college you would be ired the same responsibility?—No. the Union ect. 11812. Do you know anything of the Union co. turns?-I know they are in comme of exertion in our

11823. They do not, of course, belong to the farmer? 11814. And therefore he would have no control over 1885. Will be surely wilk to the occupant of be works for him?-If it in in the agreement, 11816. If he is not coing to work for you, you will

11817. From that point of view, the possession of a The man he will work for will supply him with ad-11818. Supposing he works with you one work and with stooler man another work, will you give his milk the week he is with you?—I do not know low that would work out.

18819, There would be a difficulty there?-Yes 11820, You would profer the old way of house a tage he bralt on the site. I am not against the brain 11821. You will not be able to secure the services of

Mr. Peres O'Hage examined.

11802 The CRAMMAN.-You are resident at Mayobridge?—Tes. 1993, What direction is that?—It is in the Down-

11824. Are you engaged to agriculture?—In a small 11825, And you are not dairying?-No. I keep a 11926. But you do not soil nulk?-No. 11927. Is there a sessenty of milk to your district?-Cattle generally went down and they have not pulled up yet. the householders in the district to process milk for their femilies if they have money to buy it?—It is. 11829. There is no converty from that point of view?

There has been a 11850. Where do the poor people buy?-From the 11861. And the farmers do not refere to supply, there. Do they sell a pint3—Yes, 11832. How much would they sharps for that5—A

halfpenny or twopence 11834. Here you formed any opinion so to whether the dairy eyes of to-day are as good as those of a decade ago? I do not think they are.

11836 You do not keep milk records? No.

11896, Are they look in your distract? No. not

11837. Has any farmer commenced keeping them mostly?—No. 11838, There are no cows registered under the Department's scheme in your own immediate neighbour-11830. Do you supply milk to your own labourers? 11840. You give them a certain quantity of milk in addition to their originary wages?-cannot my that. do not know that they see charged for st at all 11841. H you were making a bargain would you oromine them milk?-No, there was never a word

abyed 18.
11842. But they get 887—Yes
11843. And they all get a certain quantity cach day?
— Not every day, but from time to time during the

11844. Is that custom universal in your neighbour-book?—I believe it is. 11965. And the on coses give milit?-Yes. employers of labour who keep 1986, Are there my Uston cottogen in your district?-Not in my mmediate neighbourhoo 11847. Is yours a deleying distinct at all?—No, sol

dirrying district.

11848. Farmers do not sangly a greatnery?—No.

11840. Or send milk into Bellist or Newy?—No.

11860. Thay only keep enough owns for their own

11860. They chern their milk and sol for 11851. They are not subjected to any its

11832 Do you think they should be imported?-11883. You think it desirable that they should -Yee. I think it would be desirable for their sur-health and for the general health of the public. I when milking the critic and that the olders of the cows would be clean. I think it would conduce now

to good health then anything else that could be sp 11854. But have you thought of any achemo for in-Heel. But have you thought on the same or a proving the condition of the milk-producing single-bright-I think if these were name cattle brought from, my, Helland or Belgium-young stock-and commer with our shorthous and such break that if

11855. You have no expensance of the cows of Hol had or Belgian preself.—I saw a good many of them. I was there a few times, and I think that they are good animals and that the farmers will not keep cows that do not produce a certain quantity of main

cows that do not produce a certain quantity of units 1850; It is a black and with corp you slittle tol-Ves, and a puls red one, and I understand that they are you during cows. The furname would adopt them if the pulse of the pulse of the common of the form of the pulse of the pulse of the pulse of the form of the pulse of the pulse of the pulse to our neighborhood will the bast of their young helfore. She weekl to write from 420 to 50% will be young the pulse of the pulse of the pulse they usually below an inferior core. That is the pulse they usually below in the pulse of the pulse they usually below in the pulse of the pulse they usually below in the pulse they usually below in the pulse they are also were the pulse to the pulse they are also were the pulse to the pulse they are the pulse they 11807, Are they tempted by the extra price to sell? 11976. And you think that is one of the perputees that should be throttled?—You 11877. If there were enough premium helis to meet the meessaty of the breeders in the distinct, would the other bulls come to be kept \*- I believe so. 11878. That is a hirt for Professor Compbell, and

I as rather neithed to think that that freling permits in other distants as well as yours.—Yes— 11879, Mr. Winsus.—What would your opinion be regarding a outile innersnor scheme?—I have not given

11890. If a small farmer was sure that in the event of

agrainst that discuse the udders of the gows should be

11682. I was thinking of it from the point of view the eattle. Have you lost eattle from that duesas? none in my distract.

11893. And more have been taken away by the sectionsy imposter and killed?—No. 11894. Mr. Cantonic.—Do you sensesly suggest that soything should be done to prevent farmers from

of helping them are so see.

11885. Is it not a good thing to have in your layer a times. Is it not a good using to have in your byre a number of before sensing forward, and when they come to their best sell them?—It is, undoubtedly 11884. Suppose a mon kept his best heiters and was always bringsing them, forward, you would not obiset to

11887. That is a legiterate trade in which a lot of

13858. It is not so absolute necessity?-The farmers are generally poor and not no well off as they were twenty or thirty years ago. 11809. Not as well off?—Undoubtedly not

tiren over 66 well of Y--Undarbitedly not 1860. They see in these necessities sirremusiances and compelled, owing to their financial position, to realise moves by the sale of their best smooth—Yes. H861. Their must deprend the moving generalize of stock—Yes, it does very moteralize. 1960. — 10s, is does very mose thry. 1960. De you share in the general preprince enter-ined against premium builts.—I do not. 1960. You do not think it is a well-founded belief inized that they are mainly responsible for the deterioration as the miliong properties of the sone?—I think the sele-of the heat stock, that is to my the young busines, is a

11864 No. one would expect that a con value for 210 would be as good as a suring belief valued at 4201 IIBSS, and they countly soud to the face when they have no animal of that kind and sell to dealers who export them?—Yes.

export them?—Ito-11896. Is that a growing costom or has it been in existence long?—Yes, for twenty years 11897. Do you reweigher a time when it did not capat-les. 11888. When a men would be proud of a good beast?

—Yes, and keep her, and sould affect to do so before

1980. Is it a shorthorn eroes that you generally onwith the premium buils, see have you got Absolute-tages?-Shorthorns generally, and half-bureds as a 11870. What is your openion with regard to the half-bred hell? Do you think they are inquirous.

Would you like to weed them out?-I would be gird if that were done, and I have been advocating

11872. Your enlightened opinion does not provsil\* think the farmers should be assisted to get

19873. State assistance, you mean?-To-

Commander H. M. Presuce examined.

11881 What is ager 11881. What in your experience regarding tohercu-loris in outile in your dicting the lower lower of any man in my neighbourhood, and I believe that to grand

11888. The CRAMMAN — You are no present realding in the Warnespoint district?—Yes, 11899. Is there a deficiency in the milk copply as your distract? Well, in the summer time it is very

Printed image digitised by the University of Southempton Library Digitisation Unit

11890. Owing to the mercased population?—You 11890. Owing to ino measured population?—act. 11891. I quite follow. Do you take any interest in mili production yourself—I do. 11892. You have some lead at your disposal?—I

ite may area. 1993. What beed of cows do you keep?—Shorthern. of Jermy owns, and one Kerry cow. 1994. What is the result of the shorthorn and Jersey creat. I have not had expensive yet. I have not been at the become long enough, but I think it

is a very good eroos from the militing point of view.

1895. What is it in form what type of suited
does it profuse?—That is the worst part of it. You
get a must type, and the buttern to not like its. 11805. Is it very deep coloured?-Xes, like a Zersey. 11997 And the most is not regarded as chaine?-

The batchers are not been on it. 11998 You have no experience to enable you to my whether this cross is producing a good milling animal?

—It is, as to st I can see. 1899. In the milk meh?-Yes, up to about 4.1 per cent on 4.3 per cent of fet in the winter.

11600 So that it particles largely of the property of the Jessey in the quality of its milk?—Yes, 11001 Has it the Jersey bend?-Yes, and the black 1966. The milk of that animal would be richer in butter fet than the milk of the ordinary shortborn.

farmers make a let of money?--- Undoubtedly, Yes. It levels up the milk of the head if you have

11908, Of course, it is moher in butter fut than the ordinary coss-beed sumai?-Yes-

11954. Is rt a premium built you have got?--No, my 11905. In there any difficulty experienced power closes in your district in provering will it they power closes in your district in provering will if they have money to buy \$45-I do not think so. Milk is surger, but I think needed on always manage to get a little milk from the farmers around 11900. In the hard able to produce malk up to the

cotinger local standard?-Yes, with the sid of settlessal 11907. Do you give artificial feeding all the year

11908. Do you keep the cattle to in the winter time?
-No. On a fine day I would let them out for a little I give my cattle been, vellow meal

erashed outs or says cake, turnips, straw, and bay. 11909. Do you find any deficielty in having the milk tainted from the turnip feeding 5-No 11910. You do not feed notal after milking time?

11911. Do the furners in the district go in for follage to any considerable extent 8—A good many of them do. Lots of small people keep ones. In the winter milk is

11915. In it delivered round the town?-Yea, twist 11914 What is the price?-A shifting a gallon all

Community H. M. Passect,-Lit March, 1912. 11915. If you could produce more milk do von thick

rou could sell it?-I think to. 11916. Is an effort made by the farmers up the surrounding districts to provide for the secreted demand of the summer visitors?—Yes. 11917. I suppose you can hardly know whether the hilly districts the poor people our procure suffi-

people keep their own cows. 11918. You have not a large inhouring population in worr district?—There is not a large labouring popula-tion. Of course, there are mills. 11919. Do the mill employees get a reasonable supply of milt?—The mile are in Rostrevor, and I do not know yory mpoh about it.

11926. Am your promises corperted by the veter-Inspector of the Urban District.

12221. You are femiliar with the provisions of the 11989. You do not think there is another correct in the conditions had down?—No. 11923, And that any person ancious to carry on leaftimate trade has no reasonable ground of complaint?

11994, Lady Evenue,-Is it your opinion that all the by-products of milk should come roder the some regulations as now milk?—I think so, certainly. 11925. Do you know saything about the district between Hilltown and Rostrever !- It is noon,

11996. Can the neonle in that durbics set milk !-They all keep their own cows 1997. Then there is no congrety?—No, not from the mitagers point of view.

11928 Nr. Wilson -I see you have a note in your prices of oridence regarding the keeping of soils research?—Yes. 11929. Have you kept them?-Yes.

11600. Will you give us some particulars regarding as recombin—I weigh the utilit morning and overing take a note of what every own is form; work by weak ming the whole latestick period. The best gove I all gave 1,500 gillies during the latestick period nan gave 1,000 giftens coming the tartifies period. That con is not now on the regular, but when the Department have promphysical them deceases I become she will be. Then I have three cows under the Be-partment's schoure. One gave 700 gallons in a facta-1H01. How you kept a record of all the cown in

11903 Have you begun to weed out the bad once? ... 11968. What is your expensence about wording out the had once—are you often surprised to find that good looking core; my matriceout rearise !—Yes. 11934. Do you also keep a delly or well as a weekly

11965. Would your experience he that the daily or 

nonnear equating the recent.

1907. Have you been too bled with taberatoist.

No. I had my over textod—eighteen of them.

1968. Del they all pand—1969.

1969. What about the cown corney into your beeld.

1 do not have them texted unreafished they come.

I have them tested in batchin of five or my. I have them tested in tentain of two or uv.
 11940. You have not had to dispose of any shall owing to discuss?—No. 11941 You said that you are parpented by the Town Imperior?—He intopose to see that the byres are clear. 11942. In his capacity as tarifacy officers.—You. The

doctor imports sho

Mr. James Cosmoner cummed. 18938. Onions and oranges?-Tee 11963. The CHAIRMAN -You are dairy importer to n Newry Urben District. Yes.

12944. You every out the dulies in conjunction with

1294. You every out the dulow in computation with the volcining improperor—Tex.
1284b. In your week insoly confused to variating whether or not those capaged in the building of the radia are consult in larging their holds often and their 11900. Have you had much borde in endersing this portion of the Crinker—Tex. I had soom bordels. 11907. I have improvement belong place as time goes

1948, And have you less trouble now?—You. 1949, Have you been obliged to institute prosecu-

11955 Reposted admosstsors have been sufficient? -That is so, 11971. Do you know much shout the conditions under which the power portions of the population live —are they gotting a proper and adequate supply of wells in this eared district?—I do not think so. men in this rune districts—a see not think so.

Il922. For what reason have you come to that onelement. Do you think it is becomes they have no
money to have vide—Three may not have money at all minor, and they seldow got it so aredit.

11683. With regard to the milk shops, do you make an impection of those 5.—Tes, regularly,

11664. Here you had any difficulty with them so

inducing them to keep milk stored under proper con-difficus?—Yes, In Sec. I found the milk often uppovered. 11955, Exposed to contaminating in a variety of 11936. Have was been enabled to enforce visages of the Order without prosecutions 5. Yes, month were very willing to do what I asked 11927. Was the milk sometimes kept in contact with acticles that might by likely to injut #5"-Yes many cases pareffit oil.

acree. Mad you ever any difficulty in gaining above to premises other than the slop where milk was stored.

—No.

11960. Do you seed any samples for analysis?—Yen 11961. How the result been subisfactory?—If the milk is good I get no reports. 1986. That is hardly satisfactory. To who

11963. You never had any report in which the will our stated to be below the logal standard?—No. The 1964. A base three per cent 9. Yes.

11964. And there was no suggestion of a process tion, of course, when it reached that standard?—No 12906, Is the milk supplied to the power districts as good as that supplied to the better class people?— 11967. Quale the same?-I believe it to.

11068. It was suggested to us in another centr 11068. It was suggested to us in and that to the man see must appearably was grassed, and this to sub-botier close people good milk was sold and in the poorer distincts poor milk was supplied. You have so ensour to believe that that practice is followed here. —No, and from information been the police, who play samples, there never have been any experts for eight

17900. There is no reason to believe that the milk is tempered with in any way?—No. 1860. Do you know whether or not the system of providing mosts for the factory operative is carried 11971. You do not know anything about the pro-

loon?-No

11972. We were fall by one witness that an element was unde to provide a must for the interproperties and society destable were provided, and that it was alterationed because this people preferred to go to have bounded. I leave they have cooking unlessful miles feeling.

1993. Do they shiftle them?—A number of them

1972 Do they edifine them?—A number of them do. 11974, And do not lowe the premises from mening until night?—I do not think so, 11976. M. Communit.—How do you take complex of suits?—I sol, tar a pronyweigh of wift and I suferm the person that I am going to have it needwood by the

the person that I am goring we are assessed with public saddy.

1976 Yes allow them to take the sample?—Let. 1977-8. Yes connect this is assigned without paying for it?—Orthinily rot. 1970. From whem 4a year get year matrixings with regard to you district.—From the Urban Connell 1980. From whent?—When the Urban Connell 1980. From whent?—When the Took Circle, or

devet from the Cornell

Mr. James Consoller.—Let Morek, 1915
11961. Among other things, do you trapped the
outfit?—Yes.
11962. Were you brought up amongst outfit?—Yes.
I was reasted in the constancy.
11968. Did you ever writh second eathle?—No.
11968. Did you ever with a sowe?—I have suiffed a

11968, Da you know the difficulties of militig a cont-There is a little difficulty.

11960 Can you milk a cow with dry backs?—I know there are dry miltern and wet milkers.

issues tower and 44% interest rate were supported by the Linds, But you ever look to see if their bunds were dry-less? Heavy were dry less than 12000. You had better shake bende with the milker the reast times you site in a byer and see whether his way. Without he would be the support of the limit of the limit be boundary to see which beginns in the Rand Disserted-No. I have no artificially that, it and no you do sit we point of

# Miss E. Vos Brinners commed.

11991. The Christean—You are buly supermitted in the County Informacy and Newty Haspitals—You 11998. I former a great own yound to motivate the 11998. And its correct all closure of particular—Next information. I 1998. Add its correct all closure of particular—Next information. I 1999. Modical and surgooi?—You and thickness and 11999. As on many abilitims taken an patients—Yes.

trees, are many tenants meets as platters—levely have possessed as a terrange one of two oblibres in the wards.

1966. What condition do you find these children in with regard to their general health—a.b. a rule, which regard to their general health—a.b. a rule, in delifiers from the lower of Kerny are peedy occurbed.

1967. And he ust offilts such a condition as would missed that they were properly did in thirt early as

1999. As they harding with the value of rock as a dist3-Thet is our gravious difficulty— to get them to take so take solit. They prefer too, even obtained to see a solit. They prefer too, even obtained to be been soomtomed to have until as a feed "Leptwart," I take the challent in Nowry, as a risk, do not get suffic. They get until the solit. They get until the solit. They get until the solit properties of the solit properties are the solit properties.

milk. They get milk lieb.

1900. That is a very poor substitute?—Yes. We find it takes nome weeks to get some oblibers accurate toward to the near of milk. It is the same with the ability. We find good difficulty in guilling the mill girk to take milk, in feet I have known patient when were put on milk inte say that they would go out also patient if they do not go on another it says that they would go out also patient if they do not go on another it says that on go of supstitute of the

13001. Searching they were usen accustomed to the Yea.

Yea.

12002. That would be consistent evidence that the working class population are simped strangers to the use of rath as a feed.—I then the shiften only get the milk on their tes or perhaps a finite mile on perhaps. We find the oblition, as not, parts better-ridges. We find the oblition, as not, parts better-

1900). I take it that you have no difficulty in or, presente an opinion that obliders hereaft to be it took may one not likely to do not took about the about the state of the obliders. The obliders who established the normal of the obliders who is not to the obligation of the obliders who is not to the obligation of the obligation of

way here from not construct as an advance of the trasule for the generacy of trherendous points in the tratem?—I certainly think no. I think then when the method go to the mills the children are neglected. 12005, Harn you thought of any scheme wherehow the critic connectation of this sphere might be related

semant other recent of twings the distinct wards but "The state that the contract of the contr

ignorest of the importance of a milk diet for their ignorest of the importance of a milk diet for their shiders.

1910. It is not always extreme powerly that proveate their hoying milk!—No, because they buy other bods that are more expensive.

1901. Blus McNarm.—Do they key a large amount

1981). Whe McNerac—De they lead a saye amount of these patest perpand bodd—No. 11001. What do they give the haban?—They give them anything that is going. Then what they tell us in the heaping that is going. Then what they tell us the heaping that they be the core of the positions after the cores of the position and the position an

as he as our accommodation gots.

1901s. Do you have sometimes to duchange patients accore than you otherwise would for work of session modation?—Sot often.

1901s. Do you get a subvention for your maintained from the Newry Urban Cornoll?—No.

1901s. You get our ball contribution them the Down

County Councils—Yes.

12017. Lody Evrasors,—You tell us that the gridgoing into your hospital would not toosh milk?—There as a general sistle emerged the working chance to milk tool—rice publings. We find after a time shory take 15.

Hall Mode. They came into the hospital as if they never that how what milk ward. "Not beight, That seems such a very neight thing—the mathen have never born made; trained: "No. They the do not inderested the value of milk for their children." 13000, And you would magent that a soleme for only observed the milker would be advantageous?—The milker milker and girld.

13024. Mr. Wuxees to Mrs: Von Streighten.—Have you a branch of the W.N.H.A. in Nowry?—No. 12023. Have you got snything bide the system as Bellant, where hashib vintors go about to see that the

Miles E. Voy Streengrg.--- Let Merch, 1919.

12001 Have you a Technical School in Newsy?-12022. Are there becomes given in Hygiene there?-

I may will a mean war overly by premius, and a special come of instruction its given there. The metruchion is free, sad the girls are allowed to eat what they cook. As a matter of fact, they get their ten bright going born, and we see that

1992. Are there lectures given as Hygime Sure3— 1 exacts tell you fairer (Principal et like Newey Tech-and Schotch), Soit under this direct bend of Hygime. 1993. Lady Persians (to Mr. Holder)—Lux they well oblereddy—Lux. We have on the sed arrev con branches and fifty young woman for the lest gast yours. I may state therefore the two schoolings of the self. mothers are properly unstructed?-I do not know of 12020; Muss McNuzz,—Is the Notefication of Earths 13303, 8168 HONDEL—16 the Notherables of English
Not adopted in Newrys—1 do not loars,
13375 Mr. Wrases—1 on appear to here a great
deal of tuberculous amongst the different of the working classes—1 and in the same invalid you say they get no
milk 2—No.

male?—Xes.

12039- It appears to me that you have almost pailed slown the connection between tuberculous and the milk they get something wholesome. supply?-I carnot help that. The Computation advocated at 5.20 n.m. fell the 19th Morch, 1912.

Secretary.

## APPENDIX A.

### (Referred to in Question 979, page 85.)

TEISH	AGBICULTUBAL	GEGANISATION	SOCIETY,	THE	PSA NKETT	HOUSE,	DUBLIN

Circulm C. 52. February, 1911.

Danielle, Converge and Minarcone Ontille

prior coi; The LLOS, inlexis to appared the Local Government Board with the object of obtaining some releasible of culture previous of the Order which, when strictly enforced, our reported to be arroady requiring the Oceanry solutory, or, fullog such releasing, to codeswor to secure the extension of the operation of the Order to all dury futures.

I son to request that you will fill up and redeem to me, at your carbont convenience, the accompanying form of question, so that the LLCOR, may be in a position to support the case by evidence of the effect which the Children has lad or the multi-supplies of the Or-operative Orientation.

Years feithfully. B. A. ANDERSON,

The Manager of the Co-aperative Creamery samed in the solver.

DATEDS, COMMUNES AND MILESBURY CERTIFICATION

- 2. Has the Order been adopted by the Local Authority in your district?
- 3. Is it skriotly enforced? 4 Please over the following particulars :--
- Total No. of Milk Suppliers
- Yotal Milk sopply (gallons)
- Do you attribute the falling off (if any) in your mits supply to the operation of the Order? 6 If any emplaces left owing to the Ordes, did they do so during the Winter on the Summer sensor?
- 7. In what respect do you think the Order mucht be
- 8. Are you satisfied that the Order should remain in
- Has the Order effected any improvement in the
- as use totale encount say improvement in the purity of your milk supply? to Please state how any others facts bearing on the question :-

Somed .....

# 360

### APPENDIX B.

(See Questions, 1295, p. 47, and 10000, p. 310).

Return of Milk Traffic to Dublin.

Return of Milk Traffic to Dublin.

GREAT SOUTHERN AND WESTERN RAILWAY.

BUTCHS of the Number of Goldon of Milk received at Kingshallon for the ur

	Y	nan		Tuist Number of Gallom of Mills for Year		taf.	1	Petal Number of Gallege of Milk for Year.
1.805 1.805 1.806 1.806 1.806 1.806 1.908 1.908			-	750,045 750,047 867,048 853,048 854,435 854,635 722,630 953,236	1901 1903 1903 1907 1908 1908 1909 1910 1911			507,788 366,721 535,651 832,704 472,789 581,101 875,235 788,889

MIDLAND OREAT WESTERN RAILWAY.

Excess of Milk Troffs on the Milland Great Western Railway system, received at Breaketone, Dublin,

8	TATIONS		1907.	1906	1900	1910.	3933.	Total.
			Galleria.	Gallons.	Galleco.	Gallous	Gallions.	GnEcen
Lucian			-	-	-		4.8	- 4
Lectio			4,453	4,647	5,114	5.020	6,607	
			10.978	13,750	10,794	7,930	8,437	51,90
Kilcock			3,574	2,960				6.00
Hell of Down			30	12				4
Killgern			3,653	4.600	2,720	1,773	_	12.74
				8,218		6,353	4,097	32,83
								3
				97				2
Mante			1,440	1,389	1,685	1,854	1,722	8,00
Multi-familyan				10	_			
			4,150	3.619	2,125	2.740	2,366	14.42
				30,843				168,82
Sorio lef					10,535		.129	11.37
bleesey .						1,520		1.50
								**100.2
Subleres			24,149	27,061	24,700	24,735		149,207
Dunboyne, .				11,043		12,425	12.075	93,143
			20,369	7,021	3.671	4,437	3,711	20,000
Orccuree .			287					25
Cingoourt			4,320	3,434	3,416	2.917	2,557	16,704
Balloghaderreen							463	417
fallybeg			3,729	4,116	3,410	2,550	4,586	18,941
	T	tals	140,460	142,813	103,589	95,585	78,629	348,019

GREAT NORTHERN BAILWAY COMPANY GRELANDS.

SECTIMENT Showing the Number of Came\* of Milk remained at the principal Receiving Stations for conveylance to Deblim. Team 1994 to 1911 inclusive. Also Statement giving the Total Number of Came of Milk received at Deblim. Variet 1993, to 1991 included.

Steleoux	1904 No.	1905 No.	1906 No.	1907 No	1908 No.	1909 No.	1916 No.	1911 No.	Your	No ef Can received a Dublin. No
Malabete Donahats Germanstown Dyogheda Deteck Bellybeg Vergania Hand Droum Junction Andra CartlobelEngham	3,493 362 9,163 2,166 - - 1 109 1,494	2,900 303 10,316 2,108 	2,005 308 5,804 1,082  - 683 1,445	2,623 623 10,126 2,956 183 — 621 3,691	2,714 1,073 10,679 1,730 257 	11 3,951 1,933 11,638 1,339 615 	3,238 3,238 853 19,100 1,742 600 184 297 4,616	1,185 3,287 540 93,105 649 536 566 663 -4,638	1895 1896 1897 1896 1896 1990 1991 1992 1993 1993 1994 1996	16,225 12,245 22,260 12,200 13,313 11,476 11,580 11,673 13,180 17,624 18,197
. K.		13.0							1907 1908 1909 1910 1911	26,496 29,463 21,643 22,927 23,929 20,539

"The Company have no means of assertaning the number of gallons for

### Return of Milk Traffic to Dublin.

DUBLIN AND SOUTH BASTERN RAILWAY,

Revenue of Milk Traffic to Dobbin on the Dobbin and South-Earless Rulway System. Years 1902 to 1911 inclusive

				T	о навк	OUNT 8	ILBEST.					
			1902	1903	3904	1965	1906	1907	1908	3909	1990	1911
Station	tren		No. of Galn.	No of Gals	No of Gals.	No. of Gale.	Xu of Onlo	No. of Gala.	No of Gals.	No. of Gale	No. of Gals.	No. of Gala
Cifcool			1.907	7,908	6.437	8,159	6,709	2.694	7,994	13.110	5,972	7,20
Cransatio			9.163	17,007				9,304	1,052	6,135	9,666	11,781
Tickley			16,954	13,004	24,407	31,567	18,941	16,153	20,459	10,999	25.003	22,817
bathers .		- 1	14,111	19,543	21,063	26,134	33,414	26,842	21,395	31,655	25,366	15,232
fenely			19,271	15,335	15,812	14,520	17,346	10,561	16,301	11,654		10,448
latbeleum.			5,030	1,323	1,903	3,429	6,642					
Foodrabrider			43,973	53,483	52,054	60 007				48,200	54,772	51,666
aghno			12.575	17,100				6,370	20,504	9,015	11,035	16,585
aklow			12,048	14,548	9,217	15,364	22,967	21,422	28,766	36,457	47,008	47,327
noh .			89,314	90,081	81.134	73,949	88,770	10,305	92,649 58,534	88,357 61,499	86,158 97,318	84,000 73,400
			63,700	63,292	9,993	10,722	65,366	9,593	5,014	7.735	1.000	6,839
ema			11,606	26,833	29,567	25,880	26,823	23,796	18,191	5,579	20,540	17,056
legescorthy Vextord			13	No	Nr.	1,245	184	320	Nil	1,334	1,488	695
			361,783	899,416	375,946	392,030	465,765	363,999	373,710	379,384	423,726	403,643
Newstalls Waltisw Bathness Glessaly Woodenheidge Anghren Zallinglen Anklow Lach Conty			20 6,153 XE XE XI XI XI XI XI XI XI XI XI	No. 100 No. 10	No. 1,894 2,456 304 2,456 304 305 306 306 307 308 308 308 308	704 No. No. 4,235 No. No. No. No. No. No. No. No. No. No.	1,339 Nd Xd 109 Nd Nd Nd Nd 2,384 305	No. 201 No. 201 No. 201 No. 5,163 No.	3,117 580 1,013 500 201 No. 213 No.	NII 1,196 NII 3,741 1,000 NII 10,230 NII	13 N.L. 3,646 N.L. 3,314 3,510 802 17,043 N.L.	NI. 201 8,68 801, 8,50 8,30 87 14,05 15
			6.112	5,063	5,000	4,999		5.166	4,063	18,617	27,327	
			9,110	10,000	3,000	4,750	4,489	0,700	4,000	1 200011	-	24,890
Kaleool Newcastle Wickley	-	-	2,343	20	ANDE	S STRI	HT. C.1	0.8 R.	690	5,858	3,488 5,797 90,000	63 Nd. 6/02 4/38
Newcastle		- 21	1	20	AMDE	SS STEE	1,144 1,825 1,825 9,137 9,137 9,137 9,137 9,137 9,137 9,137	4,047 7,920 10,847 11,148 17,900 1,473 24,734 N.U.	090 0,115 8,040 10,380 4,874 21,062 12,682 13,683	4.878	1,488	63 No. 1,02 4,38 1,54 6,28 3,50 3,50

# APPENDIX C.

### Denve Ming supplies to Consumers.

(See Osseline 2.400, page 78.)

Letter to Department from the corner of a Greenway and a prominent member of the Butter Trade.

"Data Siz,
"One of your Impectors, 'Mr. A.,' has sent me his "use or your inspectors," Mr. A., mas send me too report on the working of our owners y at "X." I am very thoushed fee his present and past reports, and find that they are disabled by a good seal of instillation and class charrestion, fee whoch I am very paraful,

of sufficespeeps; a number of the suppliess had their null, delivered before I served. All the suffi I saw supplied was undern, but taskeeds were alone." As and take constraints, for which I alls TOY DANIES,

of will do up both to entry cut.

I beg, horrers, respectfully to eal; ottention to

our such held up to observe stronger stronger and the stronger of

in the principly control, but which I have no doubt be a like arraphore, as the a convicuel stronger of

principly control, but which I would like to add the post of the milk to the control of

and of the Department to earry out, his ...—"Coolibles

cample we refer at the milk to the doubt be compared to the milk to the control of

cample we refer at the milk to the both to control of

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what are comment, we seen to a particular plant and the proof in our broaders and the proof in t

as magazined using the temperature as what all Billion being supplied us. I do not known, I only right to thus so a knew being supplied us. I do not known, I only right to thus so a knew being the supplied to the sound to be the supplied to the supplied

- X. Y. Z."

\* Byres.

Xete as Report of an Assistance.

"The condition of the milk supply is had at this creamery, both as fast as they refers a supplier's milk."

"X's" earts go uplit into the supplier's door for that milk, we nexter bow head at a."

Letter from the susmaps of a Creenery united by the Hoterator in Davane in the district.

"Date Sin, "I could be good to the control of the country of the c

compulsory methods, by which one ornancey campolishes a memorally of the other. My commutate and I would very much desire that your men would call occurrently and examine the bosse, the working

te plejes, etc. I un sure and confidual yeu will very soon
di ce your way for compulsary communities. Then dil
creametics would be placed in an equal footing.

Yours institutely,
the

Copy of Resolution

"At a maxing of the committee of the shows Society
it was unminimally needed that the Department's
Espectoe be written to, intensiting him not to some to
are reconcerve in fatter until he well have commobile

Letter from the Manager of a Circumstry in reply I letter from Department, stating that the visits of the Indicator wind come asiem some attempt i

any.

Memo, from Instructor in Durgung with reference to propasal to resource Q's creaming from the Unit of creaming to be visited on occupant of duty on

here overled.

\*\*Most the years gain emerges at this district strength of the property of the district strength of the dist

### APPENDIX D.

(See Outsteen \$460 and \$512, page 62.)

Statement furnished by III. Poole Wilton groduction of Ireland, and questify ab- the Greanstein.	unbed by	Leaving available for milk, b	utter, and	518,019,045
The only statistics available which throw	habt on	Cacamery butter -		340,000,000
		Factory butter		37,130,000
production, confirmed in Part VI., Preliman of the Corons of Production, 1907 (Cd. 3468 The returns are received from econo-	g, 1911.	Cheese, 2,000 cuts, at I gall to 1 lb sheese		221,000
inctories engaged us the magnifecture or bi- bratter. Batter, cheese, etc., made by factor		134/390 gallons of milk ste gallons of milk to 1 gallon	ago, at 15 of occurs	2,010,060
archelol.  According to the figures on page 84, 670,00 button were made in preconsure and factories.				199,354,000
ents, and fastory butter, 170,000 outs. The	on toth a	Leaving available for threet or and production of formers		
voluntary question addressed to the ma-	drar, and	How this quantity is divi-	ded up as	pozgecturel.
personal by firms accounting for 90 per e-	eat, or use	perception has to be naturated	or the co	to northerman
The 500,000 each of botter would bee	ome about			
140,000,000 gallons of rails, and the 170,00 Mouded batter 57,190,000 gallons of milk-	0 ents of	If we assume that the com- population is 30 gallons of sallons are recorded, leaving		
1907.	gaBons	milk for bonne buster-rosking.	urhush at	3 callers of
Malch cons Loss brifers in cold	1,361,463 86,000	milk to the fb. of brittes rope bome-made botten.	counts 078	971 cets. of
	1,475,663			enrie. 500,000
Less 5 per cent, for coue suckling,				
baying gone dry, etc.	23,273	Factory batter produced		
	1.401,000	Farmer's hatter produced		678,071
Total marnisty of milk produced at		Total production		1,343,671
400 gallous per cow	000,979,000	Butter imported in 1907		68,938
Less calf communition at 35 gallons		Total		1,406,029
each on number returned at June 1st. 1907	27,029,005	Buites exported (exclusive of and personger train truff	pasoel per	
Less 5 gallous for each young pig, based on musual production of 14 page to each breeding new	9,968,350	Leaving for home consump	taon	. 589,795
_	47,096,965			
		Which ornels 15 lbs, per be		

APPENDIX E (See Questions 2070 and 2580, page 82.)

THERMAL DEATH-POINT OF PATHOGENIC BACTERIA. (i) Proc. Santienhank & Neurum: "Basterridepy of Milk." Milk." Signey of the Santier, U.S.A.—Publity, of Epipolo Basilla in "Flugge states 188"F. (199°C.) for 30 minutes with Milk. Hatter and Cheere: Hong J. Weshbors, Sovier Particulary of the Division.

bil the apendic organisms of mireofe, diphthesis, typical fives, and eledens."

Macdayte & Heritatt have demonstrated, by sodies alternate beaten and cooling, this 970 OFF's, montained for held a marke, is greenly sufficient to kill suppressive organisms and such

sufficient to his supervisive experient and new rindest types of publication as an E. Bighitherin, B. typhono, and B. tuberculosis. General Interface of Preventive Mechanic—Thoma-oritons—16 Series."

(3) From "The Control of Boxing Tuberculous"— U. S. Department of Agriculture—Eureus of Aurocal Lebistus—Circulus 175. "All milk from toleranious coan that is used for food purposes should be thoroughly pastenined. This means that it must be heated sufficiently to kill or scales harmines may cohoosis harding that may be present in st. For that it is necessary to best the neak far 20 minutes at 48°P, or to 6 minutes at 170°P. All paths or other openities used in connection therewish to be sterlined." "GPC (14PT) to 30 mmstes, a 89°C (17BPL) momentarity, will deprive typical beelli, and also the specific againsts of dighthesis, dyectory, refere, and tubusaless of all their humain powers."

(4) L. A. Rogere, Bacterislagist, Davy Division, Barens of Astreel Industry, Department of Agorniture, U.S.A.

In Yest Book, 1905, p. 186 :--

"The lowest point at which the beriffus of tuber-colosis in deshoped in 140°F, for 80 minutes, wal-the milk most be occationly stored. In the configurate-flow modulates, where the milk is mann-28 or 30 seconds, the temporature used range from 186°F. to 180°F. The country at 190°F, are appearing, and any temporature below this point has little or no benefited effect." (5) Dough Performing Law. (Operation 2438L)

"By Section 8 of Law of 5th February, 1904, on behaverless in cottle and page, inspection of police and by the susperious appointed under the Butter and Mangaline Act. The police take aroundly about 15,000 temples and the suspectors 2,500 samples, which protects to be tested at the Lubernium the samples are lound to be strufficiently heated

The temperature to which the reds, butternill, or even was formerly heated was 85°C (185°F), but was reduced in 1904 to 80°C (176°F.). The (6) Percentl, in his "Agricultural Basteriology," states

that .- "Hary experiments have shown that temperatures of 60°C, maintained for 20 minutes, 65°C, for 15 minutes, 70°C, for 10 minutes, are usually sufficient number, 10°C. to so minutes, are usually elements to destroy the requestions, but theiry considers that mothing less than 85°C., kept up for 5 or 10 minutes, suffices for absolutely reliable result."

(7.) Bussell, 14 hir" Deny Boots folegy," states that :--"To teleprolous milk in honted up a closed secur

ture, narre a second measure cames he profuned, the tobards heelilus is hilled at 140°P. in 15 to 20 minutes. . . If nifk is reconstitutly leaded to 176°P, as is actually sufficient to destroy the

(8) Cone, to "Bacteria in Milk and its Products," states that -"To free the nulk from the dauges of distributing

surricus so temper the visuomae or the takerds handle which are in the milk so as to render them burnelses." In "Dairy Bacteriology," by Dr. Ed Von Forrealmenge, it is stated that taboriolous milk, bested to 154,456°F. for 20 minutes, was found to be recopable of producing telegrations in grouns

### OM EXTRACTS FROM "OUTLINES OF DARRY BACTERIOLOGY," 1941. (By H. L. RESSELL and E. G. HASTINGS.)

(P. 71.) "Treedsaged tuberculous with ... It is could possible to tent milk or factory by-products so to to positive to seems must or invest by-promises as to render there positively safe. The process of pasteuron-tion or sterilination is applicable to whole milk, and when effectively done destroys entirely the whole min, and any tubercle bacills. In making such exposure one he taken to prevent the formation of the toward heat is greatly increased under these conditions. organism. A monophary exposure at \$70°F, is Mornigo inflictors. This is the method that is abnortune organic

toberenious among hose and young eattle, but as equally

(Pp. 122-123.) ". . . It has corretions been asserted that was tabwecle harifles is very remainful to heat, some

claiming that it is accessary to heat milk to 200°F, or three were still above those at which the milk is physically and obstacelly chenged by the leating process. More recent work has shown that not all

"The pesterment-on of milk can be done in such "One justicerisation of milk can be done in such sastners not impost to it good beging qualities, and to genee its freedom from justicerism beatrans, and vet not support to physical and observated properties but much of the so-colled pesteumed milk placed on the market us not treated to according with proper hygienia methods."

(11) EXTRACT FROM ANNUAL REPORT OF THE LOCAL GOVERNMENT BOARD FOR IRRIAND FOR THE YEAR ENDED MARCH, HOL

# Observations on the Beloises of "Oremeries" to the spread of Entons Fover in Ireland, and on the necessity for Pastermentors of "Oremery" products, by E. J. MosWeeney, M.A., M.D., D.P.H., Batteriologist to the Lond Supermers Road.

". According to the experimental rescuences most recently searied out, those of Beau, particular, those of Beau, particular, those of Beau, particular Cosperimental and take before the recent Tuberculases. Compares in London, and those of Herr, curved out at Ecculum, under the directions of Finger, and published in the Zestecketh für Hayener (vol. 5, ps. 1), exposure of the suffix to 100°E for about 10 serious will certainly aboutly any learner landth that may be machinery in use at creamenes as on the continuous-flow prisciple, and the milk is accordingly at its

information a temperature of 185°F., if maintained for the outful-point of over-heated with insufficientlyheated milk. In order to counteract these decreases, heated milk. In owner to constraint these unwarrants, and to reasons that every part of the milk shall be inought to the desired fermentum, it seems advisable to spenily a higher point, vinc, IRCT,, or that or when the wilk cought to be known or continuous-flow mention and with copies to be incorpic on continuous-move metchine. I would insufer suppose that for been 'justicurized' (as applied to mills), be reserved for mill-that has been so treated. Storch's di-phrapharms test afform an easy method of accommuning abother a gram numple has been brought to 1887, which as all that in

### APPENDIX F.

(See Questions 10001-4, page 516.)

(see Question score, page over)

GREAT SOUTHERN AND WESTERN RAILWAY.

Beres for the Conveyance of Gods by Goods Trum Serbiss
KRAD MATES.

Miles			30	INSUE OF .	Lymana.				Waster Fer *part Wagen.	RATES Per Wagon.
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# (\*Maximum number at Part Wagen Hate—16.)

Barns for the Conveyence of Gosts by Pesterger Train Server.

	In Guard's van.	Not in cente	of hompers	
Miles	hampers: not more than three in one ceesignment; Fur Head.	Por *Part Wagas	Per Wagen.	
		s d	» é.	
26	2 0	15 6	23 13	
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1.25	3 0	10 11	78 8	
150	5 0	60 3	91 3	
125	6 0	69 7	103 8	
200	4 0	17 11	116 3	

\*Maccasan Number at Part Wages Ente-15 ]



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